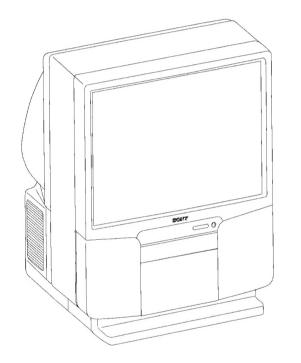
SERVICE MANUAL

AP-1E CHASSIS

DEL	COMMANDER	DEST.	CHASSIS NO.
P-S4111K	RM-831	OIRT	SCC-H55A-A
P-S4112U	RM-831	UK	SCC-H54A-A
P-S4113	RM-831	AEP	SCC-H08B-A









ITEM MODEL	Television system	Stereo system	Channel coverage	Color system
OIRT	B/G/H, D/K	GERMAN Stereo	PAL B/G/H: E2-E12, E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M01-10, U1-U10 ITALIA: A, B, C, D, E, F, G, H, H1, H2, H21-H69 SECAM D/K: R01-R12, R21-R60	PAL/SECAM NTSC3.58, NTSC4.43 (VIDEO IN)
UK	I	NICAM Stereo	UHF: B21-B69	PAL/SECAM NTSC3.58, NTSC4.43 (VIDEO IN)
AEP	B/G/H, D/K, L, I	GERMAN/NICAM Stereo	PAL B/G/H: E2-E12, E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M01-10, U1-U10 ITALIA: A, B, C, D, E, F, G, H, H1, H2, H21-H69 SECAM D/K: R01-R12, R21-R60 SECAM L: F2-F10, F21-F69 PAL I: B21-B68	PAL/SECAM NTSC3.58, NTSC4.43 (VIDEO IN)

MODEL	OIRT	UK	AEP
Power consumption	188W	268W	188W

Specifications

Projected picture size Approx. 103 cm (41 inches)

Input/Output Terminals

[REAR]

- → 1 21-pin Euro connector (CENELEC standard)
- Inputs for audio and video signals
- inputs for RGB
- outputs of TV video and audio signals
- → 2/→ 2 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (selectable)
- → 4/- 3 4 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (monitor out)
- → 3 2, → 3 4 S video inputs
- 4 pin DIN
- Audio inputs (L, R) -phono jacks
- S→ S video output 4-pin DIN
- Audio outputs phono jacks
- → Audio outputs (variable) phono jacks
 External speaker terminals: 2-pin DIN

[FRONT]

- 3 Video input phono jack
- Audio input phono jacks
- ─S 3 S video input 4 pin DIN

Sound output 2x30W (Music power)

Power requirements 220 - 240V

Dimensions

(incl.speakers) Approx. 925 x 1209 x 509 mm

Weight (incl. speakers) Approx. 65 kg

Supplied accessories RM-831 Remote Commander (1)

IEC designation R6 battery (1)

Other features Digital comb filter (High resolution)

PIP (Picture-in picture)

NICAM FASTEXT

[RM-831]

Remote control system infrared control

Power requirements 1.5V dc

1 battery IEC designation

R6 (size AA)

Dimensions Approx. 65 x 225 x 21 mm (w/h/d)
Weight Approx. 157g (Not including Batteries)

Design and specifications are subject to change without notice.

Model name	KP-S4111K	KP-S4112U	KP-S4113
Item			
Pal Comb	ON	ON	ON
PiP	ON	ON	ON
RGB Priority	ON	ON	ON
Woofer box	OFF	OFF	OFF
NICAM	OFF	ON	ON
Scart 1	ON	ON	ON
Scart 2	ON	ON	ON
Front in (3)	ON	ON	ON
Scart 4	ON	ON	ON
Dyn. Convergence	OFF	OFF	OFF
Projector	ON	ON	ON
AKB in 16:9 mode	ON	ON	ON
Norm B/G/H	ON	OFF	ON
Norm I	OFF	ON	ON
Norm D/K	ON	OFF	ON
Norm AUS	OFF	OFF	OFF
Norm L	OFF	OFF	ON
Norm SAT	OFF	OFF	OFF
Norm M	OFF	OFF	OFF
Language Preset	OIRT	English	Deutch

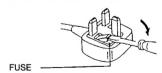
WARNING KP-S4112U only

A moulded plug complying with BS 1363 is fitted to this equipment for your safety and convenience.

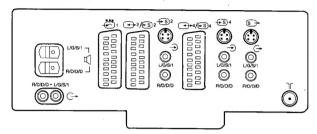
Should the fuse in the plug supplied need to be replaced, a 5 AMP fuse approved by ASTA or BSI to BS 1362 (i.e. marked with or wast be used.

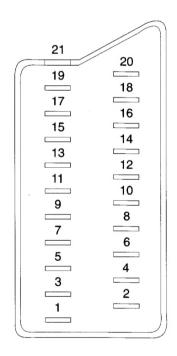
When an alternative type of plug is used it should be fitted with a 5 AMP FUSE at the distribution board.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sonv service station.



21 pin connector (-- 1 □ 1 □ 2 / □ 4)





Pin No	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*
2	0	.0	Audio input B (right)	Standard level:0.5Vrms Input impedance:More than 10kohms
3	0	0	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms
7	0	•	Blue input	0.7V±3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5—12V):Part mode Low state (0—2V):TV mode Input impedance:More than 10kohms Input capacitance:Less than 2nF
9	0	. 0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal:0.7V±3dB. 75ohms, positive
12	0	0	Open	
13	0	0	Ground(red)	
14	0	0	Ground (blanking)	
15	0	_	Red input	0.7V±3dB, 75ohms, positive
	_	0	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	0	•	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
20	0	_	Video input	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
	_	0	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
21	0	0	Common ground (plug, shield)	

4 pin connector (─S)

Pin No	Signal	Signal level
1	Ground (audio)	
2	Ground (blue)	
3	Y (S signal) input	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
4	C (S signal) input	0.3V±3dB, 75ohms, positive

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		High-Voltage Cable Removal and Installation				*PI Board	
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						S METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARB	
		CAUTION				SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE	
				-			

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK / ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.

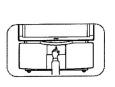
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!! LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE \bigwedge SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

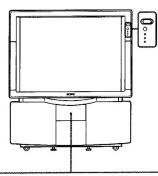
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

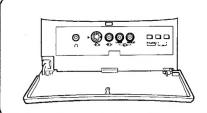
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set-front



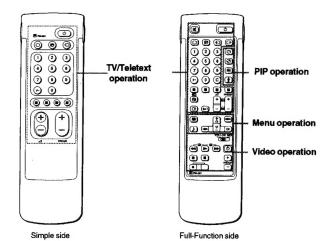
6





Symbol	Name	Refer to page
0	Main power switch	14
ტ	Standby indicator	14
AB	Stereo A/B NICAM indicators	17
Ω	Headphones jack	23
—® 3,—⊙ 3, —⊙ 3,	Input jacks (S video/video/audio)	23
P-4-D	Function selector (Programme/volume/input)	14
-/ +	Adjustment buttons for function selector	14

Remote commander RM-831



The SAT, button does not operate with this TV.

TV/Teletext operation

Symbol	Name	Refer to page
<	Mute on/off button	15
Ф	Standby button	14
0	TV power on/TV mode selector button	14
3	Teletext button	15
-Đ	Input mode selector	15
+	Output mode selector	24
1,2,3,4,5,6, 7,8,9,and 0	Number buttons	14
-/	Double-digit entering button	14
С	Direct channel entering button	11
△+/-	Volume control button	14
PROGR+/-	Programme selectors	14
1	Teletext page access buttons	19
•	Picture adjustment button	16
Þ	Sound adjustment button	16
⊕	On-screen display button	15
@	Teletext hold button	19
	Time display button	15
	Fastext buttons	19

PIP (Picture-in-picture) operation

Symbol	Name	Refer to page
•	PIP on/off button	18
t	PIP source selector	18
Ø	Swap button	18
3	PIP position changing button	18

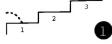
Menu operation

Symbol	Name	Refer to page
MENU	Menu on/off button	8
△+/▽-	Select buttons	8
OK	OK(confirming)button	8
←	Back button	8

Video operation

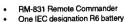
Symbol	Name	Refer to page
/TR1/2/3, /IDP	Video equipment selector	25
H►►►■ I● © PROGR+/-	Video equipment operation buttons	25

Step 1 Preparation



Check the supplied accessories

When you've taken everything out of the carton, check that you have these items:







Insert the battery into the Remote Commander



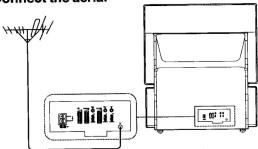




Check the correct polarities.

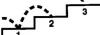
Refit the outside cover making sure that the Full-Function side is visible to use the menu in Step 2.

Connect the aerial



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the Tr socket at the rear of the TV.

Step 2 Adjusting Colour Registration (Convergence)





Note on the DEMO function

If you choose DEMO

on the main menu, you

can see a sequential

demonstration of the menu functions.

Press MENU to stop the function.

Once you have set up the TV, you can choose the language of the menu. Then you should converge the three colour layers (red, green, and blue).

Before you begin

- · Check that the Full-Function side of the Remote Commander is
- · Locate Menu operation buttons on the Remote commander. They are shaded in the illustration at the left.

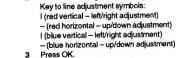
Choose a language

- Depress @ on the TV. The TV will switch on. If the standby indicator on the TV is lit, press O or a number button on the Remote Commander.
- The LANGUAGE menu appears. (See Fig. 1)
- 3 Select the language you want with Δ + or ∇ and press OK.

Display the Menu

3 Press the ← button. The main menu appears. (See Fig. 2)

O Converge the red, green, and blue lines Select "Convergence" with Δ + or ∇ - and press OK. The convergence menu appears. (See Fig. 3) Select "the line" you want to adjust with Δ + or ∇ -.



The line to adjust is selected.

Press∆+ or V- to converge the selected line with the centre green line and press OK.

To move up (horizontal line) To move right (vertical line)	Press ∆+
To move down (horizontal line) To move left (vertical line)	Press ∇-

- Repeat steps 2-4 to adjust the other lines, until all the lines have overlapped to form a white cross. (See Fig. 4.)
- 6 Press MENU to return to TV picture.



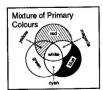


 Programme Table
Video Connection
Timer
Preset
Picture Control
Sound Control
Language
Demo
Convergence





Fig. 4



Step 3 Tuning in to TV Stations





To go back to the main Keep pressing - .

To stop automatic channel presetting Press - on the Remote Commander.

α

- · After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see "Using the Programme Table" on page 17.
- · You can sort the programme positions to have them appear on screen in the order you like. For details, see "Sorting the Programme Positions* on page 11.

You can preset the channels (up to 100 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.





Preset channels automatically

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with △+ or ∇- and press OK. The PRESET menu appears, (See Fig. 5.)
- 3 Select "Auto Programme" with △+ or ▽- and press OK. The AUTO PROGRAMME menu appears. (See Fig. 6.)
- 4 Press OK. Select if necessary the TV broadcast system with △+ or ¬and press OK. (B/G for western European countries. D/K for eastern European countries, L for France and I for the United Kingdom). The first element of the "PROG" number will be displayed in red on a black background.
- 5 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with △+ or ▽- or the number buttons (e.g. For "17", select "1") and press OK.

The second element of "PROG" will be displayed in red on a black

- 6 Select the second element of the double-digit number with △+ or ∇- or the number buttons (e.g. For "17", select "7") and press OK.
- 7 Using △+ or ▽-, select C (to start presetting from the normal channels) or S (to start presetting from the cable channels) and

The automatic channel presetting starts.

When presetting is finished, the preset menu reappears, (See Fig. 8.). All available channels are now stored on successive number

If you want to change to another broadcasting system, repeat 3-6.

8 Press MENU to return to TV picture.



Fig. 5

SYS	PROG	CH
► B/G	17	C35

Fig. 6

SY8	PROG	CH
R/G	,	C35

Fig. 7

2	ese i	8
•	Auto Programme Manual Programme Preset Programme Sorting Parental Lock	
	Select Av and press OK	

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to

If you have made a mistake Press - to go back to the previous position.

various video input

sources.

To return to the main Keep pressing -.

To tune in a channel by

After selecting F in step

6, enter three digits

using the number

frequency

buttons.

Preset channels manually

- 1 Press MENU to display the main menu.
- Select "Preset" with △+ or ▽- and press OK. The PRESET menu appears, (See Fig. 9.)
- Select "Manual Programme Preset" with △+ or ▽- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See
- Using △+ or ▽-, select the programme position (number button) to which you want to preset a channel, and press OK.
- 5 Select, if necessary, the TV broadcast system (B/G for western European countries, D/K for eastern European countries, L for France and I for the United Kingdom) or a video input source (EXT)

Then press OK. The CH position will be displayed in red on a black background. (See Fig. 11.)

Using △+ or ▽-, select C (to preset a regular channel), S (to preset a cable channel), or F (to tune in by frequency) and press

The first element of the "CH" number will be displayed in red on a black background.

If you have selected EXT in step 4, select the video input source with \triangle + or ∇ -. (See Fig.12.)

There are two ways to preset channels. If you know the channel number, go to step "7-Manual".

If you don't know the channel number, go to step "8-Search"

Select the first element of the "CH" number with △+ ▽- or the number buttons and press OK. The second element of the "CH" number will be displayed in red on a black background.

-b Select the second element of the number with \triangle + ∇ - or the

The selected number appears. (See Fig.13.)

-c Press OK.

The "SEARCH" position is highlighted and the selected channel is now stored.(See Fig. 14.)

- -d Press OK until the cursor appears by the next programme position.
- -e Repeat steps 3 to 7 to preset other channels.

- Press OK repeatedly until the colour of the SEARCH position
- -b Start searching for the channel with △+ (up) or ∇-(down). The CH position changes colour, (See Fig. 15.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig.16.)
- -c Press OK if you want to store this channel. If not, press △+ or ▽to continue channel searching.
- -d Press OK until the cursor appears by the next programme position.
- -e Repeat steps 3 to 7 to preset other channels.
- Press MENU to return to TV picture.

Select 🗖 and press OK



17	9/G	C	(off)	 (on)

Fig. 11

18 EXT AV1 Fig. 12

17 B/G C (off) ---- (on)

Fig. 13

17 B/G C35 (oll) ---- (on)

17 B/G C35 (A V) (on)

17 B/G C37 (AY) ---- (on)

Fig. 16

Additional Presetting Functions



This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

You can skip this section, if not needed.

Before you begin

- Check that the Full Function side of the Remote Commander is visible.
- Locate the Menu operation buttons.

PROGRAMME SORTING



Sorting Programme Positions

With this function, you can exchange the programme positions to a preferable order.

- Press MENU to display the main menu.
- Select "Preset" with △+ or ▽- and press OK. The PRESET menu appears.
- Select "Programme Sorting" with \triangle + or ∇ and press OK. The PROGRAMME SORTING menu appears. (See Fig. 17.)
- 4 Using △+ or ▽-, select the programme position you want to move to another and press OK.
 - The colour of the selected position changes. (See Fig. 18.)
- 5 Using △+ or ▽-, select the programme position to which you want to move the channel of the programme position selected in step 4 and press OK. Now the two programme positions have been sorted. (See Fig. 19.)
- Repeat steps 4 and 5 to sort other programme positions.

Tuning in to a Channel

7 Press MENU to return to TV picture.

▶ 8 C15 BBC1 16

Move PRS to PR--

PROG	CH	LABEL	PHOG	Un.	FAGEL
№ 1	C15	98C1	9	COZ	***
2	C07	BBC2	10	COZ	***
3	C14	ITV	11	COS	
1 4			12	C03	
1 1			13		
1 1		***	14		***
1 7		C4	15		
	CDS	BBC1	16	***	
	r	Move PRE	to PR-		
	_		_	_	

Fig. 19

Temporarily

You can tune in to a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- Press C on the Remote Commander. The indication "C" appears on the screen. (See Fig. 20.)
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.

-	 	
		с

Fig. 20

MANUAL PROGRAMME

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number

- 1 Press MENU to display the main menu.
- Select "Preset" with △+ or ∇- and press OK. The PRESET menu appears.
- Select "Manual Programme Preset" with △+ or ▽- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig.21.)
- 4 Using △+ or ▽-, select the programme position which you want to skip and press OK. The "SYS" position changes colour.

If you have made a Fig. 22.) Press - to go back to

the previous position. To go back to main Keep pressing -

- 5 Press △+ or ▽- until "----" appears in the SYSTEM position. (See
- 6 Press OK. (See Fig.23.) When you select programmes using the PROGR+/- buttons, the programme position will be skipped.
- 7 Repeat steps 4 to 6 to skip other programme positions.
- 8 Press MENU to return to TV picture.



PRO	G	SYS	CH	S	ARC	н	LABEL	٨
,	3	B/G	C29	(off)		(
- 1	4	B/G	C31	i	aff)	****	-0
1	5	B/G	C32	į	off)		- (
	8	B/G	C33	- (off	3		t.
1	7	B/G	C40	i	off)		f:
	8	B/G	C35	i	off	1		E
1	9	B/G	C42	i	off)		6
- 2	0	B/G	C46	- 1	off	ì		-
	1	B/G	C50	i	off	i		Ė
- 7	2	B/G	C54	i	off	j		(
		_		_	_			_
		Select	80.	ind	pres	. 0	K	

19 ---Fig. 22

Fig. 23

LANUAL PROGRAMME

Captioning a Station Name

Programme names are usually automatically taken from Teletext if available. You can also "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- Press MENU to display the main menu.
- Select "Preset" with \triangle + or ∇ and press OK. The PRESET menu appears.
- Select "Manual Programme Preset" with △+ or ▽- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig.
- 4 Using \triangle + or ∇ -, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- Select a letter or number with \triangle + or ∇ and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 25.)
- 6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 26.)
- Repeat steps 5 and 6 to caption names for other channels.
- Press MENU to return to TV picture.



20 B/G C46 (off) 5 --- (on) Fig. 25

20 B/G C46 (olf) SONY-(on)

9

For programme itions beyond 15 The display scrolls automatically

If you have made a Press - to go back to the previous position

To go back to main Keep pressing -.

MANUAL PROGRAMME PRESET

Manual Fine-Tuning

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with ∆+ or ∇- and press OK.

The PRESET menu appears.

3 Select "Manual Program Preset" with △+ or ∇- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 27.)

4 Using ∆+ or ∇-, select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.
 5 Fine-tune the channel with ∆+ or ∇- so that you get the best TV

reception. As you press the cursor buttons, the frequency changes from – 15 to + 15. (See Fig. 28.)

6 After fine tuning, press OK.
The cursor appears beside the next programme position (at the left

- margin). (See Fig. 29.) Now the fine-tuned level is stored.
- 7 Repeat steps 4 to 6 to fine-tune other channels.
- 8 Press MENU to return to TV picture.

PROC	SYS	CH	SEARCH	LABEL	AF
13	8/G	C29	(oif)	*****	(00
14	B/G	C31	(bif)	*****	(05
15	B/G	C32	(off)		(on
18	8/9	C33	(off)		(on
17	B/G	C40	(olf)		(0.0
18	B/G	C35	(off)	*****	COM
15		C42	(off)		(05
▶ 25	B/G	C46	(tto)	SONY-	ton
21	8/G	C50	(off)	****	(on
22	B/G	C54	(011)		(00

Fig. 27

r	19	٠	2	

G46 (eff) SONY- (-: G46 (eff) (or	(eft)	C45	B/G B/G	20 21	•
--------------------------------------	-------	-----	------------	----------	---

PARENTAL LOCK

If you try to select a

programme that has

"LOCKED" appears on

the blank TV screen.

been blocked

The message

To reactivate AFT

beginning and select

Repeat from the

"ON" in step 5.

(automatic fine tuning)

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- Press MENU to display the main menu.
- Select "Preset" with ∆+ or ∇− and Press OK. The PRESET menu appears.
- 3 Select "Parental Lock" with △+ or ∇- and press OK. The PARENTAL LOCK menu appears. (See Fig. 30.)
- 4 Using ∆+ or ∇-, select the programme position you want to block and press OK.
 - The CH and LABEL change colour and the TV picture disappears indicating that this programme is now blocked. (See Fig. 31.)
- Repeat step 4 to block other programme positions.
- 6 Press MENU to return to TV picture.

Cancelling blocking

- On the PARENTAL LOCK menu, select the programme position you want to unblock with ∆+ or ∇−.
- Press OK.
 The CH and LABEL change colour to normal colour and the TV picture appears indicating that the blocking has been cancelled.

ROG	CH	LABEL	PROG	CH	LABEL
D	AVI	VHS	8	C38	*****
1	C25	ARD	9	C39	
2	C42	ZDF	10	C40	
3	C28	RTL	11	S41	
4	C34	SAT 1	12	\$42	
5	C35		13	543	
6	C38		14	\$44	
7	C37		15	\$45	

Fig. 30

PAOG	CH	LABEL	PROG	CH	LABEL
▶0	AV1	VHS			
1	C25	ARD			
2	C42	ZDF			
3	C26	RTL			

Fig. 31

Watching the TV



If no picture appears when you depress ① on the TV and if the standby indicator on the TV is lit, the TV is in standby mode.

Press □ or one of the number buttons to switch it on.

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Operating Instructions

Depress @ on the TV.

Switching off temporarily

Press & on the Remote Commander.

The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press O, PROGR +/-, or one of the number buttons on the Remote Commander.

Switching off completely

Depress ① on the TV.

Selecting TV Programmes

Press PROGR +/- or press the number buttons.

To select a double-digit number

Press -/--, then the numbers. For example, If you want to choose 23, press -/--, 2, and 3

Adjusting the Volume

Press ⊿ +/-.

Operating the TV Using the Buttons on the TV

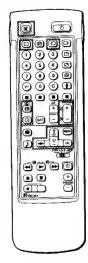
With the -/+ buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- 1 Press the P→✓→ button repeatedly until the programme number, A (for volume), or → (for video input picture) appears. Then adjust with the →+ buttons.
- 2 Press the -/+ buttons to switch on the TV from the standby mode.
- 3 Press -/+ simultaneously to reset picture and sound controls to the factory preset level (RESET function).



For details of the teletext operation, refer to page 19.

For details of the video input picture, refer to page 24.



To make the Programme Table Press MENU.

Watching Teletext or Video Input

Watching teletext

- Press @ to view the teletext.
- For teletext operation, enter a 3-digit page number with the number buttons to select a page. For fastext operation, press one of the coloured buttons. For both operations, press (PAGE+) for the next page or
- 3 To go back to the normal TV picture, press ○.

Watching a video input picture

- 1 Press repeatedly until the desired video input appears.
- 2 To go back to the normal TV picture, press O.

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press → once to display all the indications. They will disappear after a few seconds.
- Press Twice to have the programme number and label stay on screen. Press twice again to make the indications disappear.

Muting the sound

Press .

To resume normal sound, press ≪ again.

Displaying the time

Press . This function is available only when teletext is broadcast. To make the time display disappear, press @ again.

Displaying of the Programme Table

Press OK. A Programme Table will be displayed on the right side of the TV screen (See. Fig. 32.)

Selecting of TV programmes

Press PROGR +/- or select the desired programme position using Δ + or ∇ -, and press OK.

Γ.	•	ARD	
Ι.	2	SAT	
1	3	TV5	
1	4	CDS	
	5	C15	
1	6	RTL	
1	7	SKY	
	8	534	
	9	AV1	
	10	MTV	

Fig. 32

Adjusting and Setting the TV Using the Menu

PICTURE CONTROL

SQUIND CONTROL



Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste, in addition, you can set the resolution to obtain a higher quality picture. You can also select dual sound (bitingual) programmes when available or adjust the sound for listening with the headphones, or individually adjust and store the volume level of each channel (volume offset).

Press ● (for picture) or ♪ (for sound) on the remote Commander.

Press MENU and select "Picture Control" or "Sound Control", then press OK.

The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 33 or Fig. 34.)

- 2 Using ∆+ or ∇-, select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 35.)
- Adjust the setting with Δ + or ∇ and press OK. The cursor appears beside the next item (at the left margin). (See
- For the effect of each control, see the table below. Repeat steps 2 and 3 to adjust other items.
- Press MENU to return to TV picture.



Fig. 33

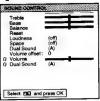


Fig. 34



Fig. 36

If you have made a

Press - to go back to the previous position.

To go back to the main Keep pressing -

HUE is only available for NTSC colour systems and RESOLUTION does not work for SECAM colour systems.

Note on LINE OUT The audio level and the dual sound mode output from the O+ jack on the rear correspond to the Headphone VOLUME and DUAL SOUND

When watching a video input picture You can select DUAL SOUND to change the sound.

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less - I More
Brightness	Darker —— Brighter
Colour	Less — More
Hue	Greenish — I — Reddish
Sharpness	Softer
Reset	Resets picture to the factory preset levels.
Resolution	(normal) (high) Obtain a higher picture quality

SOUND CONTROL	Effect
Treble	Less — More
Bass	Less — More
Balance	More left — I— More right
Reset	Resets sound to the factory preset levels.
Loudness	off: Normal on: When listening to low volume sound.
Space	off: Normal on: Obtain acoustic sound effect.
Dual Sound	A: left channel B: right channel Stereo mono
	The selected mode of the A-CD-B Indicator on the TV lights up
	(For NICAM broadcasts, see next page)
Volume offset	(-7) Less 0 (+7) More
Headphones:	
Ω Volume	Less — More
Ω Dual Sound	A: left channel B: right channel Stereo mono

Selecting Nicam Broadcasts*

This Sony TV has been designed to select stereo Nicam broadcasts when available. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-OD-B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either or these by first following the instructions explained on page 16.

Service Being Broadcast	Action		Ir	ndicatio	n of the T\	′
		Stere	o Nicam	N	lono	
Stereo	Press ∆+ or ∇-	A O	*	A -0	0	
		В	*	В	0	

Press ∆+ or ∇- again to return to stereo Nicam (Mono 2-Channel)

		Chann	el A Nicam	Chann	el 8 Nicam	١	<i>f</i> lono
Bilingue	Press	A O	*	A		A	0
	Δ+ or ∇−	В	0	В	*	В	0

Press △+ or ∇- again to return to channel A Nicam

PROGRAMME TABLE

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table

- 1 Press MENU to display the main menu.
- 2 Select "Programme Table" with Δ+ or ∇- and press OK. The PROGRAMME TABLE menu appears. (See Fig. 37.)
- 3 Select the programme number with ∆+ or ∇- and press OK. The selected programme appears.
- 4 To scroll to higher programme numbers, press∇-.
- 5 Press MENU to return to TV picture.

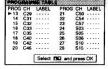


Fig. 37

e a	*
Beep Timer (off)	7
elect PLI and press OK	1

Fig. 38

TMER

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

- 1 Press MENU to display the main menu.
- 2 Select "Timer" with △+ or ▽- and press OK. The TIMER menu appears. (See Fig. 38.)

To switch off the timer Select "OFF" in step 3.

To check the remaining time Press (4).

- 3 Press Of
- The time period option changes colour.
- 4 Select the time period with △+ or ▽-.

The time period (in minutes) changes as follows:

 $10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50 \rightarrow 60 \rightarrow 70 \rightarrow 80 \rightarrow 90$

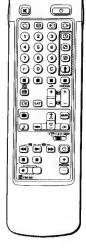
_____OFF ____

5 After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts

One minute before the TV switches into standby mode, a message is displayed on the screen.

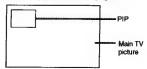
6 Press MENU to return to TV picture.

PIP (Picture In Picture)



Note RGB input source cannot be displayed in PIP.

With this function you can display a "PIP screen" (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VTR) while watching TV or vice versa. For information about connection of other equipment, refer to page 23.



Switching PIP on and off

Press (3.

The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

To Switch PIP off

Press 🕒 again.

Selecting a PIP source

Press

The symbol * will be displayed at the bottom, left-hand corner of the screen.

Press — repeatedly until the desired PIP source is indicated (e.g. TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4).

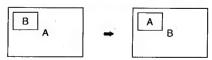
Note

If no video source has been connected, the PIP picture will be noisy.

Swapping screens

Press C

The main screen will switch the picture with the PIP screen.



Notes

- If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press t and then the programme number buttons or PROGR +/-.
- Swapping screens takes about 2 seconds after pressing (2).
- After swapping screens if the colour systems of the main and PIP pictures are different, the PIP picture first appears in black and white and then in colour.

Changing the position of the PIP

Press @ repeatedly to change the position of the PIP screen within the main screen. There are four different positions available

Displaying of PIP within Teletext

Press (while teletext is switched on.

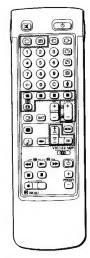
The PIP screen will be displayed on the right side of the TV screen, the reduced teletext page will be displayed on the left side.

Press (again to make the PIP screen disappear.



^{*}Depending on availability of service.

Teletext



Note

ω

Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander

You can switch teletext on and off, operate Fastext, and directly select page numbers.

Note

Fastext operation is only possible, if the TV station broadcasts Fastext signals.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press @ to switch on teletext.

A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

To switch teletext off

Press O.

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen page number.

If you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

- 1 Select a teletext page with a page overview (e.g. index page).
- 2 Press OK. "Page catching" will be displayed on the information line. Using \(\Delta + \text{ or V} -, \text{ select the desired page and press OK. The required page number flashes. The requested page will appear in a few seconds.

Press (2) to resume normal teletext operation.

Accessing next or preceding page

Press (PAGE+) or (PAGE-).
The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press © once in teletext mode or twice in TV mode.
- Press
 again to resume normal teletext reception.

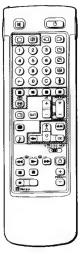
Preventing a teletext page from being updated

- Press ⊕ (HOLD). The HOLD symbol "⊕" is displayed on the information line.
- Press
 to resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after a few seconds.



Note

Some of the features may not be available depending on the Teletext service.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- Press MENU. The menu will be superimposed on the teletext display. (See Fig. 39.)
- Using Δ+ or ∇-, select the teletext function you want and press OK. (See Fig. 40.)

USER PAGES/PRESET USER PAGES

See page 22 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

DUAL PAGE MODE

After having selected the function two succeeding teletext pages will be displayed next to each other on the TV screen.

Accessing next or preceding page Press PROGR +/-.

Press Phodin #/-

Page Catching

Press OK. Page Catching is now active on the left teletext page (See also page 19).

While you select a page number or the left page using Δ + or ∇ -, the corresponding teletext page will be displayed on the right side of the TV screen.

If you press OK again the right teletext page will appear on the left.

To cancel the function:

Press -.

TOP/BOTTOWFULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 41.)

Press Δ + for Top to enlarge the upper half. For Bottom keep pressing ∇ –, to enlarge the lower half. Press OK for Full to resume the normal size.

Press @ to resume normal teletext reception.

TEXT CLEAR

After selecting the function, you can watch a TV programme while waiting for a teletext page to be captured (the symbol changes colour). (See Fig. 42.)

Press (to view the requested page.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.



Fig. 39



Fig. 40



Fig. 41



Fig. 42

REVEAL

Sometimes Pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After selecting the function, an information line Reveal on/off will be displayed. (See Fig. 43.)

Using Δ + or ∇ -, select ON to reveal the information or OFF to conceal it again.

Press @ to resume normal teletext reception.

Press OK to select "OFF" for the TIME PAGE setting to cancel the request.

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at

- Press OK. An information window will be displayed at the bottom of the page. Using Δ + or ∇ -, select "ON" and press OK.
- 2 To select the desired page, enter three digits for the page number (e.g. 452) using the number buttons.
- 3 To select the desired time, enter four digits for the desired time (e.g. 1800) using the number buttons and press MENU. The selected time is displayed at the top in the left-hand corner. At the requested time, the page will be displayed. Use the number buttons to select a new page.

SUBPAGE

To cancel the request Select SUBPAGE and press OK.

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR +/or the number buttons (e.g. enter 0002 for the second page of a sequence).



If two broadcasting stations use the same Teletext You can preset one hank to 2 different

programme positions.

User Page Bank System

You can store up to 30 pages in the "teletext page bank system", in this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- Press @ (if Teletext is not already on) and MENU to show the TELETEXT MENU display.
- 2 Select "Preset User Pages" with ∆+ or ∇- and press OK.
- 3 Select the desired bank with △+ or ∇- and press OK. The cursor will go to the first position (p1) of the preferred pages.
- 4 Input the three digits of your first preferred page with the number

The cursor will go to the second position.

- 5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number.
- 6 Select "Allocate Bank" with ∆+ or ∇- and press OK.
- 7 Select the programme position on which you want to store the preset pages with ∆+ or ∇- and press OK. (See Fig. 44)
- 8 Select the desired bank with Δ + or ∇ (Banks A to E are available)
- 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages.

- Select MENU.
- 2 Select "User Pages" with ∆+ or ∇ and press OK. A table of the stored preferred pages will be displayed. (See Fig. 45.)
- 3 Select the desired page with ∆+ or ♥ and press OK. The page will be displayed after some seconds.

or

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed corner of the TV screen. When the page number changes colour the page is available. Press the coloured button again to display the page.



Fig. 44

*	PAGE 300	
	PAGE 200	
	PAGE 203	
	PAGE 500	
	PAGE 234	
	PAGE 159	

Connecting and Operating Optional Equipment

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as a VTR, video disc player, and stereo system.

To connect a VTR using the Treminal Connect the serial output of the VTR to the serial terminal Tr of the TV.

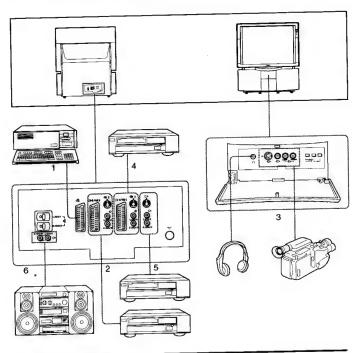
We recommend that you tune in the video signal to programme number "0". For details see "Preset channels manually" on page 10.

If the picture or the sound is distorted Move the VTR away from the TV.

S/video Input(Y/C input)
Video signals may be separated into Y ((Iuminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 3 S Video input jacks through which these separated signals can be

When connecting a monaural VTR Connect only the white → jack to both the TV

input directly.



Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 Normal audio/video and S video signal	Video/audio displayed on TV screen (monitor out)
5 No inputs	S/video/audio signal displayed on TV screen (monitor out)
6 No inputs	Audio signal (variable)

Selecting input with PROGR +/- or number buttons

You can preset video input sources to the programme positions so that you can select them with PROGR +/-or number buttons. For details, see "Preset channels manually" on page 10.



Selecting input and output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting input

Press - repeatedly to select the input source.

The symbol of the selected input source will appear. (See Fig. 46.)

To go back to the normal TV picture

Press O.

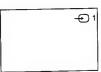


Fig. 46

Input modes

Symbol	Input signal
Ð 1	Audio/video input through the 1 connector
- 5)	Audio/RGB input through the -Ø 1 connector
-D 2	Audio/video input through the → 2/ → 2 connector
- ⑤ 2	Audio/S video input through the ⓒ+ 2/ →⑥ 2 or →⑥ 2 connector (4-pin connector)
- €) 3	Audio/video input through - € 3 and - € 3 on the front
—® 3	Audio/S video input through the - (⑤ 3 (4-pin connector) and - ○ 3 connectors
-D 4	Audio/video input through the → 4/ - 4 connector
- ⑤ 4	Audio/S video input through the ②→ 4 / →⑤ 4 or →⑥ 4 connector(4-pin connector)

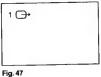
You can also select the input mode using the P P A++ and -/+ buttons on the TV. In this case, first select --> , and then press -/+ buttons to select the input.

Selecting the output

The ③ 2/⑤ 2 connector outputs the source input from the other connectors.

Press G+ repeatedly to select the output.

The symbol of the selected output source appears. (See Fig. 47.)



Output modes

Symbol	⊕ 2/ –® 2 connector outputs
1 🗇	Audio/video signal from the 1 connector
2 →	Audio/video signal from the ⊕-2/ -® connector
2 ⑤→	Audio/S video signal from the ⊕+2/ -® 2 or -® 2 connector (4 pin)
3 🕩	Audio/video signal from the -€ 3, -€ 3 connectors
3 🕪	Audio/S video signal from the -® 3, -⊕ 3 connectors
4 👄	Audio/video signal from the → 4/ → 4 connector
4 🖼	Audio/S video signal from the
TV⊕	Audio/video signal from the TF aerial terminal

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

- 1 Press MENU to display the main menu.
- 2 Select "Video Connection" with △+ or ∇- and press OK. The VIDEO CONNECTION menu appears. (See Fig. 48.) You can see which source is selected for the TV and PIP input and for the output. If you want to select the input and output on this menu, go to the next step.
- 3 Select TV-screen (input source for the TV screen), PIP (input source for the PIP screen), or Output (output source) with ∆+ or ∇− and press OK.
- One of the source items changes colour. (See Fig. 49.)
- 4 Select the desired source with △+ or ∇−. (See Fig. 50.) For details about each source, see the table on page 24.
- Fress OK. The selected source is confirmed, and the cursor appears. (See Fig. 51.)
- 6 Repeat steps 2 to 4 to select the source for other inputs or outputs.
- 7 Press MENU to return to TV picture.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: Beta, 8 mm and VHS VTRs and video disc players.

Tuning the Remote Commander to the equipment

1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR1: Beta VTR VTR2: 8 mm VTR VTR3: VHS VTR MDP: Video disc player

2 Use the buttons indicated in the Illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.



When recording when you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

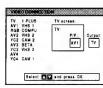


Fig. 48

TV screen:	
	1
	TV screen:

Fig. 49

AV2 VHS 2 YC2 CAM 2	PIP:
AV3 BETA	98C 1
YC3 VHS 3	

Fig. 50



Fig. 51

Troubleshooting

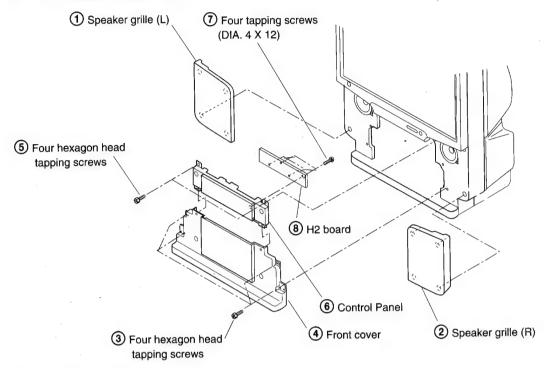
Here are some simple solutions to some problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	 Plug in the TV in. Press ⊕ on the TV (if ⊕ indicator is on, press ⊕ or a programme number on the Remote Commander). Check the aerial connection. Check if the selected video source is on. Turn the TV off for three or four seconds and then turn it on again using ⊕.
Poor or no picture (screen is dark), but sound is OK	 Press to enter the PICTURE CONTROL menu and adjust the BRIGHT- NESS, CONTRAST and COLOUR.
Pour picture quality when watching a RGB video source	• Press - repeatedly to select
Good picture but no sound	Press △ +. If ≪ is displayed on the screen, press ≪.
No colour for colour programmes	Press to enter the PICTURE CONTROL menu, select RESET, then press OK.
Remote Commander does not function	Replace the battery.

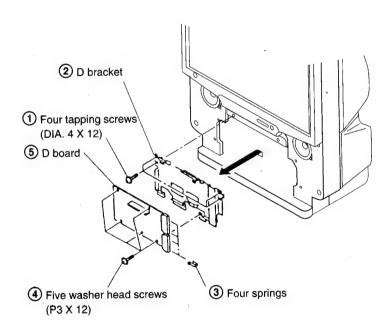
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

SECTION 2 DISASSEMBLY

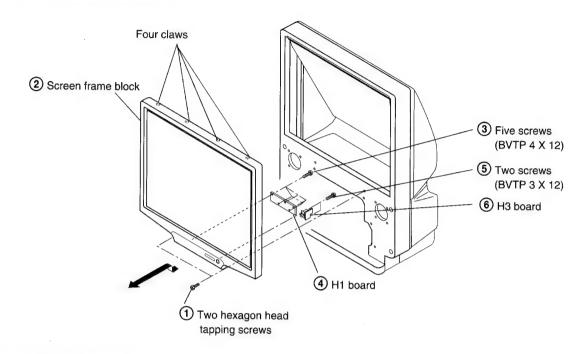
2-1. H2 BOARD REMOVAL



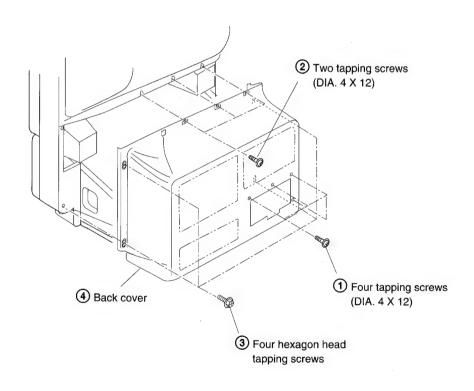
2-2. D BOARD REMOVAL



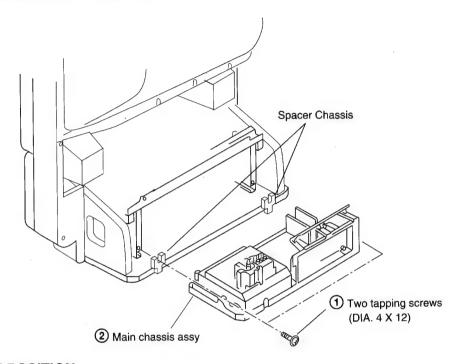
2-3. H1 AND H3 BOARD REMOVAL



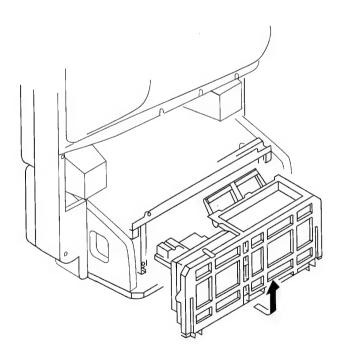
2-4. BACK COVER REMOVAL



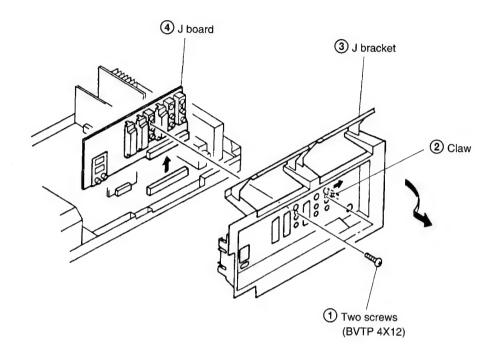
2-5. MAIN CHASSIS ASSY REMOVAL



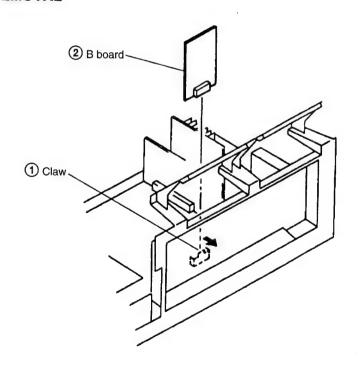
2-6. SERVICE POSITION

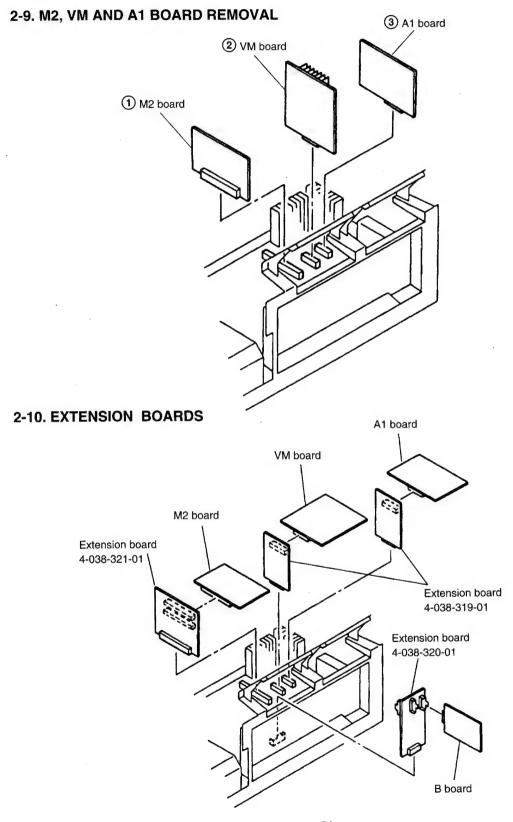


2-7. J BRACKET AND J BOARD REMOVAL

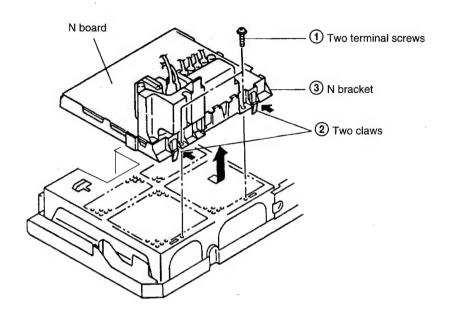


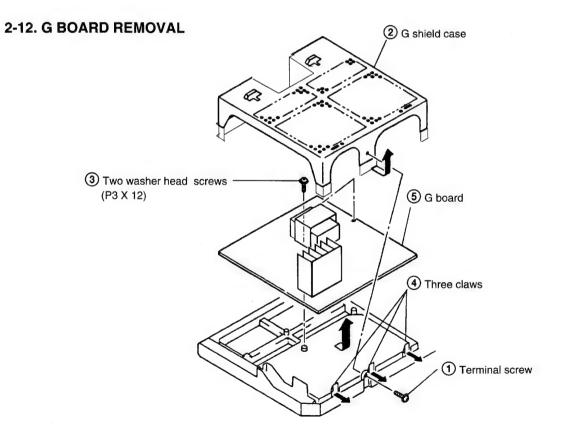
2-8. B BOARD REMOVAL



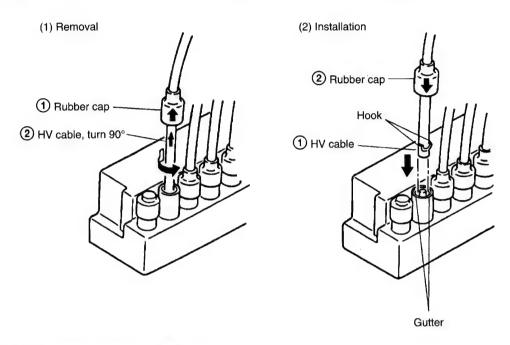


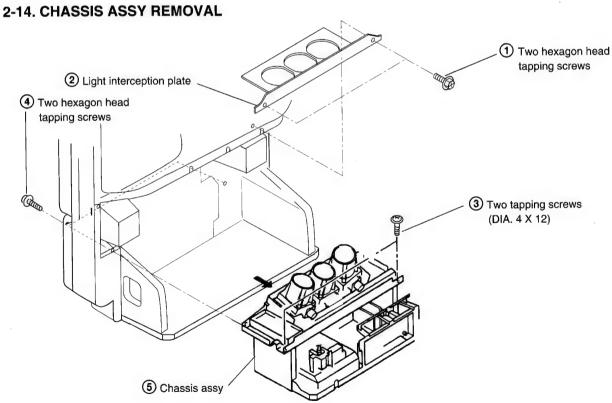
2-11. N BRACKET REMOVAL

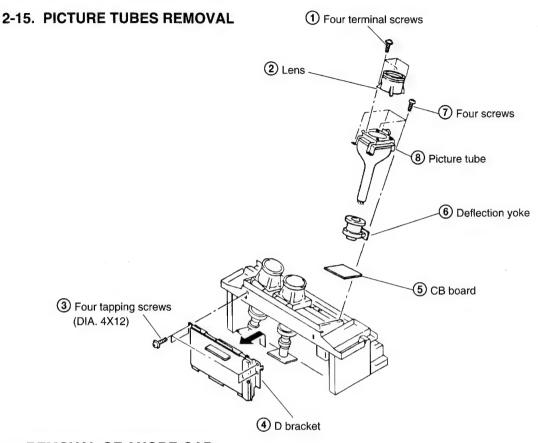




2-13. HIGH-VOLTAGE CABLE REMOVAL AND INSTALLATION



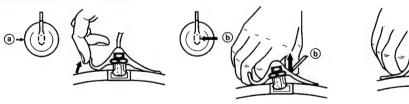




REMOVAL OF ANODE-CAP

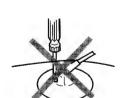
NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

REMOVING PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.
- HOW TO HANDLE AN ANODE-CAP
- ① Don't damage the surface of the anode-cap with sharp shaped material!
- ② Don't press the rubber hardly hardly not to hurt inside of anode-caps!
 - A material fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly!

 The shatter-hook terminal will stick out or hurt the rubber.



When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

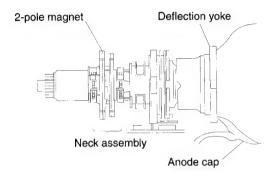
Anode button



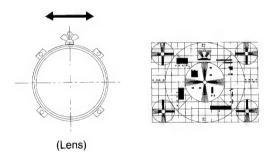
SECTION 3 SET - UP ADJUSTMENTS

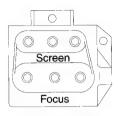
3-1. FOCUS LENS ADJUSTMENTS

- 1. Set the D-board registration variable resistor (VR) and the position VR (CENTER VR) to mechanical center.
- Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.



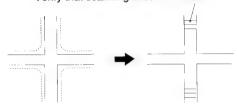
- Input a monoscope signal. Set BRIGHTNESS to 50% and PICTURE to minimum. Make rough adjustments so that the 20IRE of the monoscope signal becomes faintly luminous.
- Set the PICTURE and BRIGHTNESS to maximum.
 Press the commander menu button. Select CONVERGENCE to display the test signal.
- Enter into the service mode. Select R MUTE (ITEM 35) of CXA1587S to cut off red output. Similarly, select B MUTE (ITEM 37) to cut off blue output.
- 6. Turn the green lens to eliminate flare of the test signal.



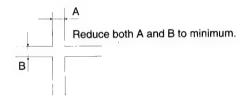


(Focus block)

Verify that scanning lines are visible.



Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



 Repeat step 7 a number of times to improve tracking and obtain optimum lens focus. Then tighten the lens screws.

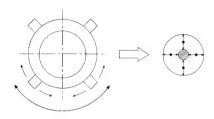
3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

- 1. Input a monoscope signal.
- Enter into the service mode. Select R MUTE (ITEM 35)
 of CXA1587S to cut off the red output.
 Similarly, select B MUTE (ITEM 37) of CXA1587S to cut
 off the blue output.
- 3. Loosen the deflection yoke (DY) fitting screws.

 Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
- 4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
- 5. Also adjust the DY positions for red and blue outputs in the same way.

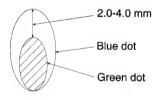
3-3. 2-POLE MAGNET ADJUSTMENT

- 1. Input a dot signal from the pattern generator.
- Enter into service mode. Select R MUTE (ITEM 35) of CXA1587S to cut off red output. Similarly, select B MUTE (ITEM 37) of CXA1587S to cut off blue output.
- Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block counterclockwise to brighten the point in the dot.
- 4. Adjust the 2-pole magnet to position the bright point at the center of the dot.
- 5. Adjust the red and blue dots in the same way.



3-4. DE-FOCUS ADJUSTMENT (BLUE)

- 1. Input a dot signal from the pattern generator.
- Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that the diameter of the blue dot becomes between 2 and 4 mm bigger than the green dot.

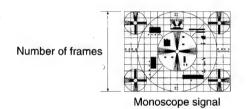


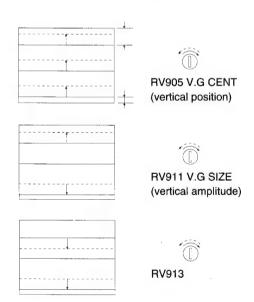
3-5. GREEN PICTURE ADJUSTMENTS

- 1. Input a monoscope signal.
- Enter into service mode. Select R MUTE (ITEM 35) of CXA1587S to cut off the red output. Similarly, select B MUTE (ITEM 37) of CXA1587S to cut off the blue output.
- Turn RV913, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain optimum vertical linearity.

Then turn RV911, the vertical green amplitude variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 frames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.





4. Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.



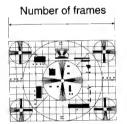
 Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.
 Then turn RV908, the horizontal green amplitude to 15.6 frames.

Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.

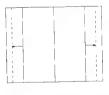
6. Input a cross hatch signal from the pattern generator. Turn the vertical green (V.G) and the horizontal green (H.G) variable resistors (VRs) and make adjustments according to the following steps:

(Adjustment procedure)

- 1. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 2. $[PIN (pin warp)] \rightarrow [SUB BOW] \rightarrow [BOW]$
- 3. [KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]
- 4. [M.WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]
 * For vertical (V) only.
- 5. [V-M.PIN (vertical middle pin warp)] → [V/WING (vertical wing warp)]
 - * For vertical (V) only.
- 6. [H-M.PIN (horizontal middle pin warp)]
 - * For horizontal (H) only.



Monoscope signal





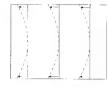
RV908 H.G SIZE (horizontal position)





RV916 H.G LIN (horizontal linearity)

(Dot motion)

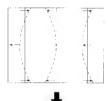


RV932 H.G BOW (horizontal green bow)





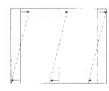
RV941 H.G PIN (horizontal green pin warp)



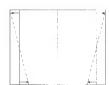
RV950 H.G SUB BOW (horizontal green sub bow)



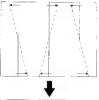
V.G BOW RV935 V.G PINRV938 V.G SUB BOW RV953



RV920 H.G SKEW (horizontal green skew)



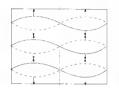
RV925 H.G KEWS (horizontal green trapezoid)



RV944 H.G SUB SKEW (horizontal green sub skew)

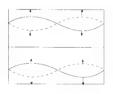


V.G SKEW RV923 V.G KEYS.....RV929 V.G SUB SKEW RV947



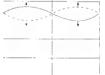


RV962 V-M-WAVE (vertical middle sine wave warp)



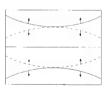


RV975 V-WAVE-A (vertical upper and lower sine wave warp)



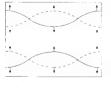


RV978 V-WAVE-U (vertical upper sine wave warp)



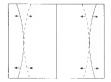


RV980 V-M. PIN (vertical middle pin warp) * Common in red, green, and blue





RV957 V/WING (wing warp) * Common in red, green, and blue





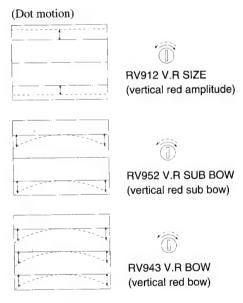
RV956 H/M. PIN (vertical middle pin warp)

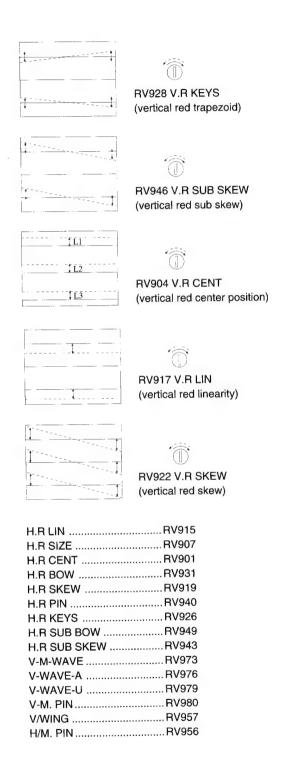
3-6. GREEN AND RED REGISTRATION ADJUSTMENTS

- 1. Input a cross hatch signal from the pattern generator.
- Enter into service mode. Select B MUTE (ITEM 37) of CXA1587S to cut off the blue output.
- 3. Turn the vertical red (V. R) and horizontal red (H. R) variable resistors (VRs) to adjust red picture convergence in relation to the green picture according to the following steps:

(Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)]
- 2. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- [PIN (pin warp)] → [SUB BOW] → [BOW]
 [H/M. PIN (horizontal middle pin warp)]
- 4. $[KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]$
- 5. [M. WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]
 * For vertical (V) only.





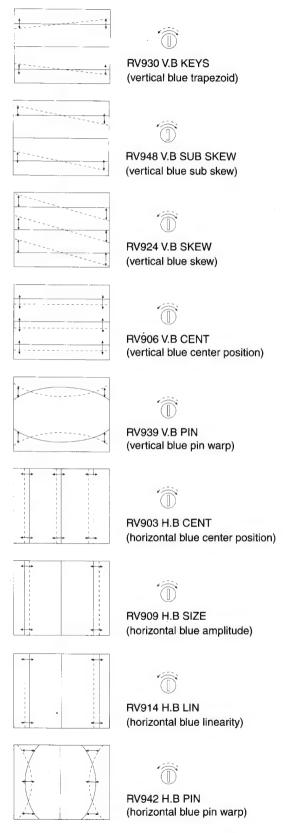
3-7. GREEN AND BLUE REGISTRATION ADJUSTMENTS

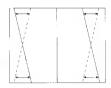
- 1. Input a cross hatch signal from the pattern generator.
- Enter into service mode. Select R MUTE (ITEM 35) of CXA1587S to cut off the red output.
- 3. Turn the vertical blue (V. B) and horizontal blue (H. B) variable resistors (VRs) to adjust blue picture convergence in relation to the green picture according to the following steps:

(Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)]
- 2. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 3. [PIN (pin warp)] → [SUB BOW] → [BOW] [H/M. PIN (horizontal middle pin warp)]
- 4. $[KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]$
- [M. WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]
 * For vertical (V) only.

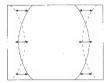
(Dot motion) RV912 V.B SIZE (vertical blue amplitude) RV918 V.B LIN (vertical blue linearity) RV954 V.B SUB BOW (vertical bllue sub bow) RV936 V.B BOW (vertical blue bow)







RV954 H.B SUB SKEW (horizontal blue sub skew)



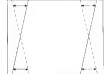


RV951 H.B SUB BOW (horizontal blue sub bow)



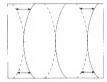


RV921 H.B SKEW (horizontal blue skew)



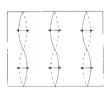


RV927 H.B KEYS (horizontzl blue trapezoid)



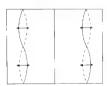


RV933 H.B BOW (horizontal blue bow)





RV981
* Common in red, green, and blue





RV982
* Common in red, green, and blue

H/M PIN	RV958
M. WAVE	RV961
WAVE-A	RV974
WAVE-U	RV977

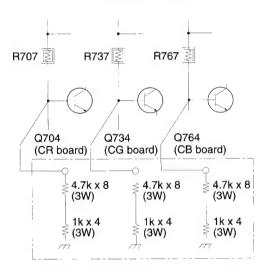
3-8. REGISTRATION ADJUSTMENTS

- 1. Output red, blue, and green.
- 2. Output cross hatch and monoscope signals to check registration. Also check focus.

3-9. WHITE BALANCE ADJUSTMENTS

1) Screen adjustment

- 1. Input an all white signal from the pattern generator.
- 2. Remove the connectors CR-15, CG-16, and CB-17.
- 3. Fit jigs between R707, R737 and R767 and ground.



- * Resistors in each jig are connected in series.
- Turn the RGB (red, green, and blue) screen variable resistors in the focus block to make the flyback line faint. Stop before the line completely disappears.
- 5. Insert connectors CR-15, CG-16, and CB-17.

2) White balance adjustments (09, 14, 15, 16, 17)

- 1. Input a monoscope signal and enter into service mode.
- Select the picture quality adjustment from the menu and set PICTURE to minimum. Select the CXA1587S service item.
- Use the commander to adjust 09 (SUB BRIGHT) so that 10IRE of the monoscope pattern becomes faintly luminous.
- 4. Input an all white signal.
- 5. Set PICTURE to minimum. Adjust item 16 (green cut off) and 15 (blue drive) to obtain an optimum white balance.
- 6. Set PICTURE to maximum. Adjust item 14 (green drive) and 15 (blue drive) to obtain an optimum white balance.
- 7. Repeat the white balance adjustment alternating PICTURE settings at the minimum and maximum.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-831.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

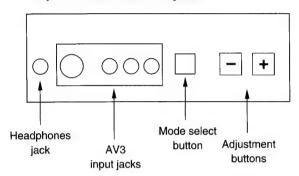
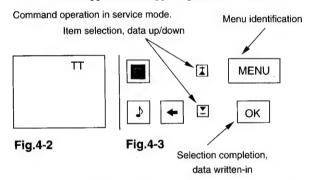


Fig.4-1

2. "TT" will appear at the upper right corner of the screen.



3. Press the MENU button on the remote commander to obtain the menu on the screen.

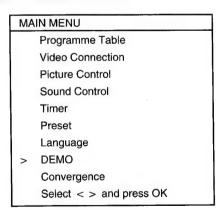


Fig.4-4

- 4. Press the ▲ and ▼ buttons on the remote commander and move > to DEMO.
- 5. Press OK button to proceed to the next menu.
- 6. The menu of Fig. 4-5 will appear on the screen. Select the DEVICE corresponding to the adjustment item from the table on the next page.

DE	VICES
	INIT
>	CXA1587S
	CXD2018Q
	TDA9145
	CXA1526
	TDA6612
	CX 7948A
	PiP
	Select < > and press OK

Fig 4-5

7. If adjustment item is CXA1587S, press the button and move > to CXA1587S.

CXA1587S

Item No.	Adjustment item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHTNESS	ADJ.
10	SUB HUE	7
11	VM LEVEL	3
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

- 8. Press OK button to get the next selection menu.
- Press ▼ button and move > to the adjustment item and press OK button.
- 10. Press \(\) and \(\) buttons to change the data in order to comply with each standard.
- 11. Press OK button to write data.
- 12. Turn off the power to quit service mode when adjustments are completed.

CXA1587S

Item No.	Adjustment Item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	3
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.
21	GAMMA LEVEL	0
22	DC TRANSFER RATIO	3
23	DYNAMIC PICTURE	2
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	ALL BLK	OFF
30	H SHIFT	32
31	DAC TEST	OFF
32	PRE/OVER SHOOT	7
33	SHARPNESS FO	2
34	SUB SHARPNESS	3
35	R MUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF
38	AGING 1	OFF
39	AGING 2	OFF
40	AKB	ON
41	INHIBIT RGB	OFF
42	FORCED RGB	OFF
43	V/2 V	OFF
44	AXIS	PAL
45	HUE SW	OFF
46	V EXTENTION	OFF

47	AFC 1	1
48	AFC 2	0
49	AFC	ON
50	REF. POSITION	0

CXA1526 (KP-S4113 only)

Item No.	Adjustment Item	Data Amount
01	DC SHIFT	32
02	UPPER Y BOW	4
03	LOWER Y BOW	5
04	H. AMP	48
05	H TILT	29
06	UPPER COR BOW	32
07	UPPER TILT	32
08	LOWER COR BOW	32
09	LOWER TILT	32

CXD2018Q

Item No.	Adjustment Item	Data Amount
01	V SIZE	No ADJ.
02	V SHIFT	No ADJ.
03	S CORRECTION	No ADJ.
04	V LINEARITY	No ADJ.
05	H SIZE	No ADJ.
06	PIN AMP	No ADJ.
07	TILT	No ADJ.
08	UPPER CORNER	No ADJ.
09	LOWER CORNER	No ADJ.
10	V BOW	No ADJ.
11	ANGLE	No ADJ.
12	HV COMP. V	13
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	No ADJ.

Typical On Screen Display based values when receiving PAL Phillips pattern.

Adjustment item	Data Amount
Stereo-Separation	30

Should be adjusted twice 4:3 and 16:9 mode.

CX 7948A

Cross Bar

(off)

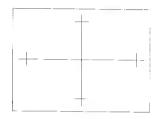
Mesh Fine Mesh

(off)

Select ▲ ▼ and press O.K.

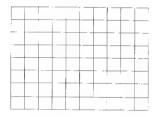
Cross Bar

(on)



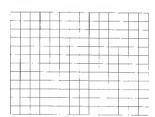
Mesh

(on)



Fine Mesh

(on)



Y FILTER ADJUSTMENT

- 1. Input a PAL RED pattern from the pattern generator.
- 2. Connect an oscilloscope to pin ① (R OUT) of CN0123 on the A board.
- 3. Enter into the service mode and select item 24 Y Filter Adjustment of CXA1587S.
- Adjust data △ or ∇ to minimize the chroma element of CN0123 ① pin.
- 5. Press O.K. button to write the data.

SUB BRIGHTNESS ADJUSTMENT

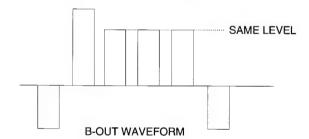
- 1. Input a Phillips pattern.
- Enter into the service mode and select item 09 SUB BRIGHTNESS of CXA1587S.
- Adjust the data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.
- 4. Press the O.K. button to write the data.

SUB CONTRAST ADJUSTMENT

- Input a video that contains a small 100% area on a Black background.
- Enter into the service mode and press 01 to have PIC max followed by 21.
- 3. Adjust the data so that 2.5 Vp-p can be obtained at pin ① of CN0123 (R out).

SUB COLOR ADJUSTMENT

- 1. Input a PAL color bar signal.
- Connect an oscilloscope to pin ① of CN0125 (B OUT) on the A board.
- Enter into the service mode and press 22 of CXA1587S, 8 SUB COLOR.
- Adjust the data so that the right sides of the waveform will be the same.
- 5. Press the O.K. button to write data.



STEREO-SEPARATION ADJUSTMENT

- 1. Input a 1kHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
- 2. Select Stereo-Separation of TDA6612.
- Adjust the data so that sound is not detected in the R-ch and the L-ch.
- 4. Press the O.K. button to write the data.

DRIVE AND CUT OFF

See direct test mode list attached and refer to sub brightness or such for adjustment method.

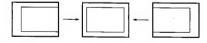
DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into service mode and select CXD2018Q.
- 2. Select and adjust each item in order to obtain the optimum image.

CXD2018Q

Item No.	Adjustment Item	Data Amount
01	V SIZE	No ADJ.
02	V SHIFT	No ADJ.
03	S CORRECTION	No ADJ.
04	V LINEARITY	No ADJ.
05	H SIZE	No ADJ.
06	PIN AMP	No ADJ.
07	TILT	No ADJ.
08	UPPER CORNER	No ADJ.
09	LOWER CORNER	No ADJ.
10	V BOW	No ADJ.
11	ANGLE	No ADJ.
12	HV COMP. V	13
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	No ADJ.

H SHIFT



3. Press OK button to write data.

If the menu display prevents accurate adjustment, press to clear, to resume, press once again.

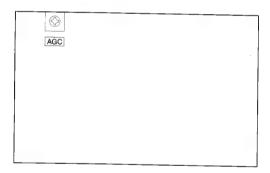
4-2. G BOARD ADJUSTMENT



+115 V LINE ADJUSTMENT (RV601)

- 1. Input a color-bar signal from the pattern generator.
- 2. Connect a digital multimeter to pin (5) of CN1654.
- 3. Adjust RV601 so that voltage is $+115 \text{ V} \pm 0.5 \text{ V}$.

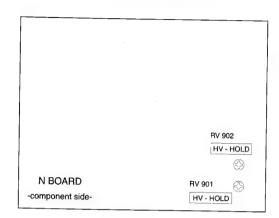
4-3. IF ADJUSTMENT



AGC ADJUSTMENT (IF BLOCK)

- 1. Receive an off-air signal.
- 2. Adjust the AGC VR so that there is no snow noise or cross-modulation visible on the screen.
- 3. Change the receiving channel and confirm status.

4-4. N BOARD ADJUSTMENTS



HV-HOLD DOWN ADJUSTMENT

- 1. Connect the HV meter.
- 2. Input a dot pattern signal from the pattern generator.
- 3. Adjust HV to 33.5 ± 0.1 KV by RV902.
- 4. Slowly turn the RV902 till HV-HOLD DOWN operates.
- 5. Fix the setting of RV902 with RTV.

HV-REGULATOR ADJUSTMENT

- 1. Connect the HV meter.
- 2. Input a dot pattern signal from the pattern generator.
- 3. Adjust HV to 31.5 ± 0.1 KV by RV901.
- 4. Fix the setting of RV901 with RTV.

4-5. TEST MODE 2:

Is available by pressing Test button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0, 10, or 20 twice ... or switch the TV into Stand-by Mode.

00	Switch Test Mode 2 off
01	Picture maximum
02	Picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Aging Condition (Volume, Picture max., Brightness max., Aging 2 Mode of CXA1587S, and TDA2595 are locked to CXA1587S via PIN 34 of μ-Con.)
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off.)
09	Dummy
10	Tenth entry is deleted.
11	Balance
12	Hue
13-14	Dummy
15	Read factory setting from NVM Read Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Color values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.
17	Preset Lavel for AV Sources
18	Dummy
19	Stereo Separation
20	Tenth entry is deleted.
21	Sub Contrast
22	Sub Color
23	Sub Brightness
24-29	Dummy
30	Tenth entry is deleted.
31	Green Drive
32	Blue Drive
33	Green Cut Off (Auto Cut Off)
34	Blue Cut Off (Auto Cut Off)

	5
35	Red Cut Off (Manual Cut Off) (Auto Cut Off is switched off.)
36	Green Cut Off (Manual Cut Off) (Auto Cut Off is switched off.)
37	Blue Cut Off (Manual Cut Off)
37	(Auto Cut Off is switched off.)
38	Y-Filter adjustment (Trap is switched off and TDA9145 is switched in forced NTSC Mode.)
39	Dummy
40	Tenth entry is deleted.
41	Default setting of CXA1587S.
	(Only in Prog 99 available)
42	Default setting of CXA2018Q.
	(Only in Prog 99 available)
43	Default setting of CXA1526.
	(Only in Prog 99 available)
44	(All Port High) Not yet
45	(All Port High) Not yet
46-48	Dummy
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On → the NVM will be preset by μ-Controller. (Not the channel data.)

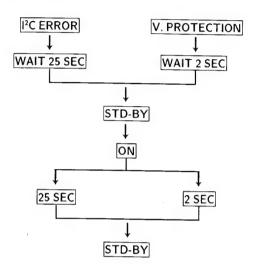
Note: For No. 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched On and TDA9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

4-6. ERROR MESSAGE

Self diagnos system can operates as follows.

 When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.



In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g. error 2 and error 5 appears together, then LEDs shows error 2).

TABLE OF ERRORS

ERROR COUNT	IC TYPE	FUNCTION
1	I C BUS	SDA low
2	X 24 C 16	EEPROM
3	SDA 3202	Tuner PII
4	TDA 9145	Colour decoder
5	CXA 1587	RGB/Jungle
6	TDA 6612	Sound processor
7	CXD 2018	V deflection
8	CXA 1545	AV switch
11	SDA 5248	Text
13		V protection

Stand by LED

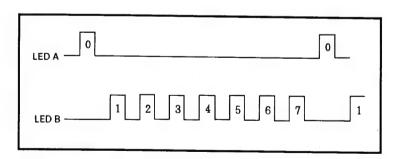
No IK return

blinking

4-7. ERROR II C BUS DIAGNOSIS SYSTEM

For all ICs in AP-1E chassis which are neccessary to get picture and sound there is a built in error I²C Bus diagnosis system.

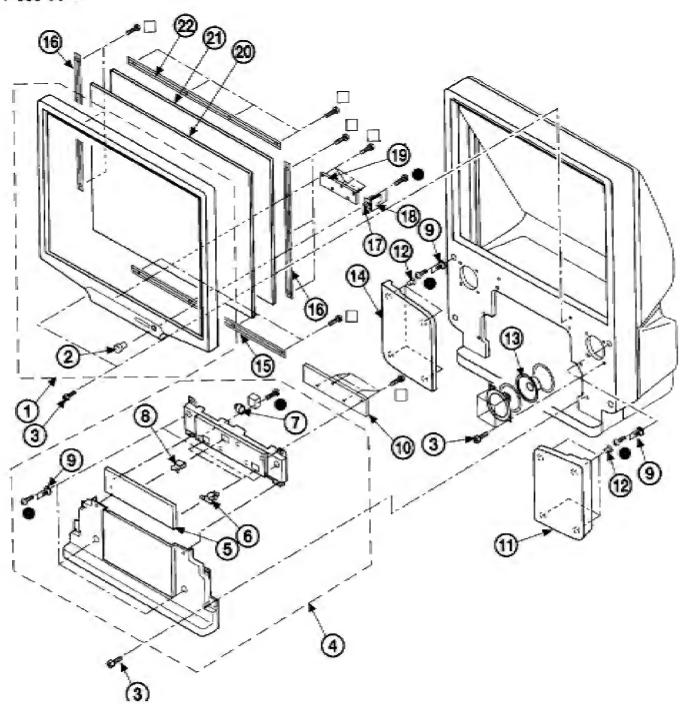
In case of no acknowledge bit, LED A and LED B starts blinking as shown.



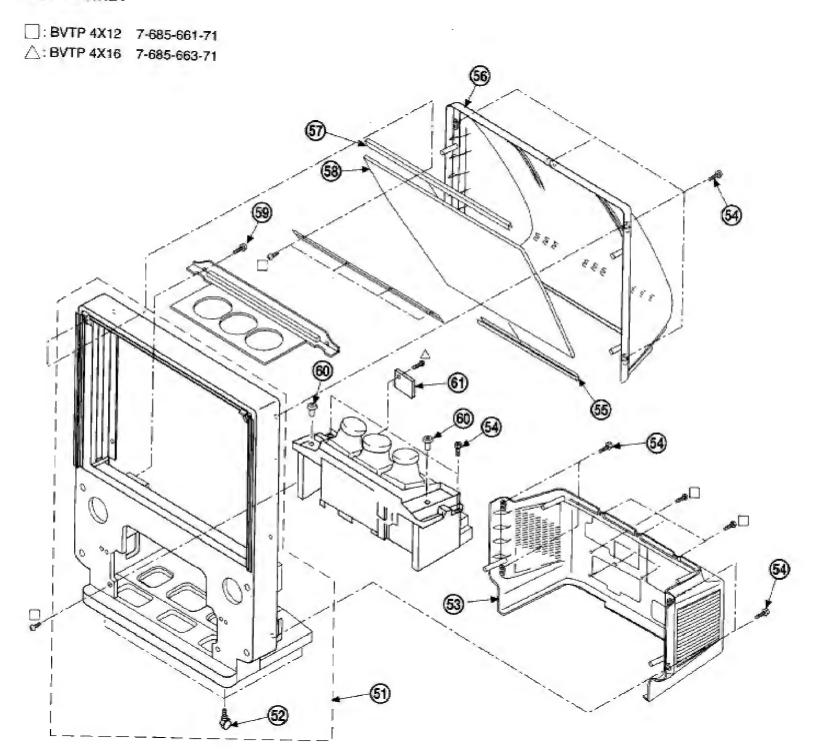
6-1. CONTROL PANEL

■: BVTP 3X12 7-685-648-79

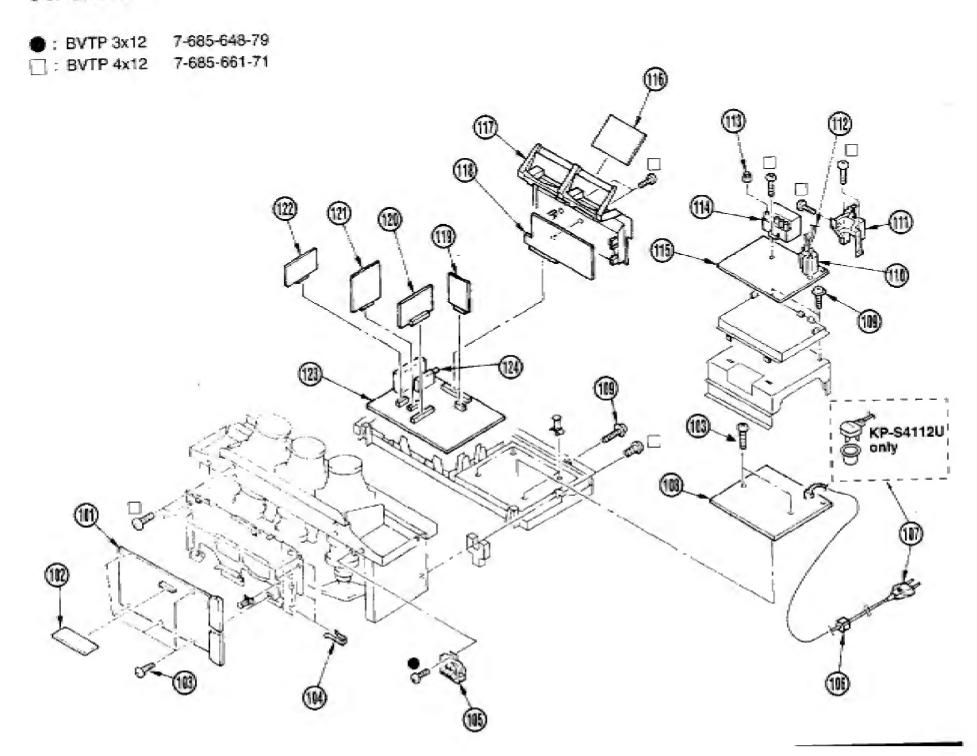
: BVTP 4X12 7-685-661-71



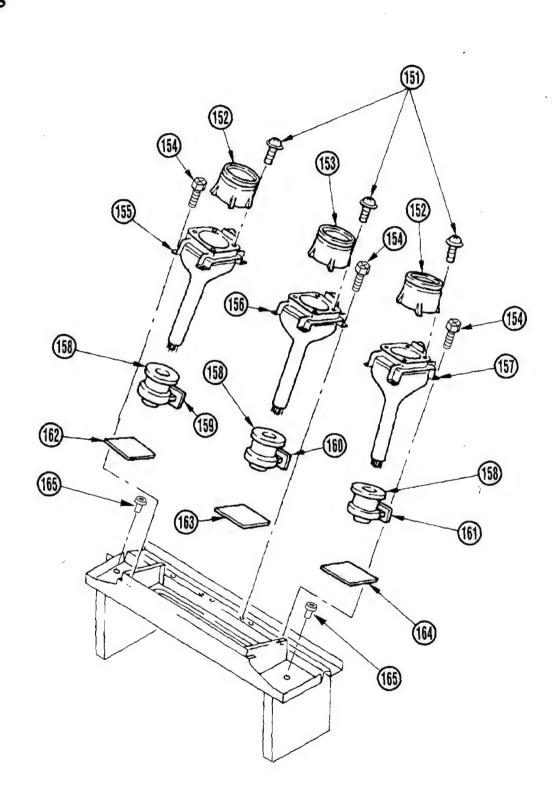
6-2. CABINET



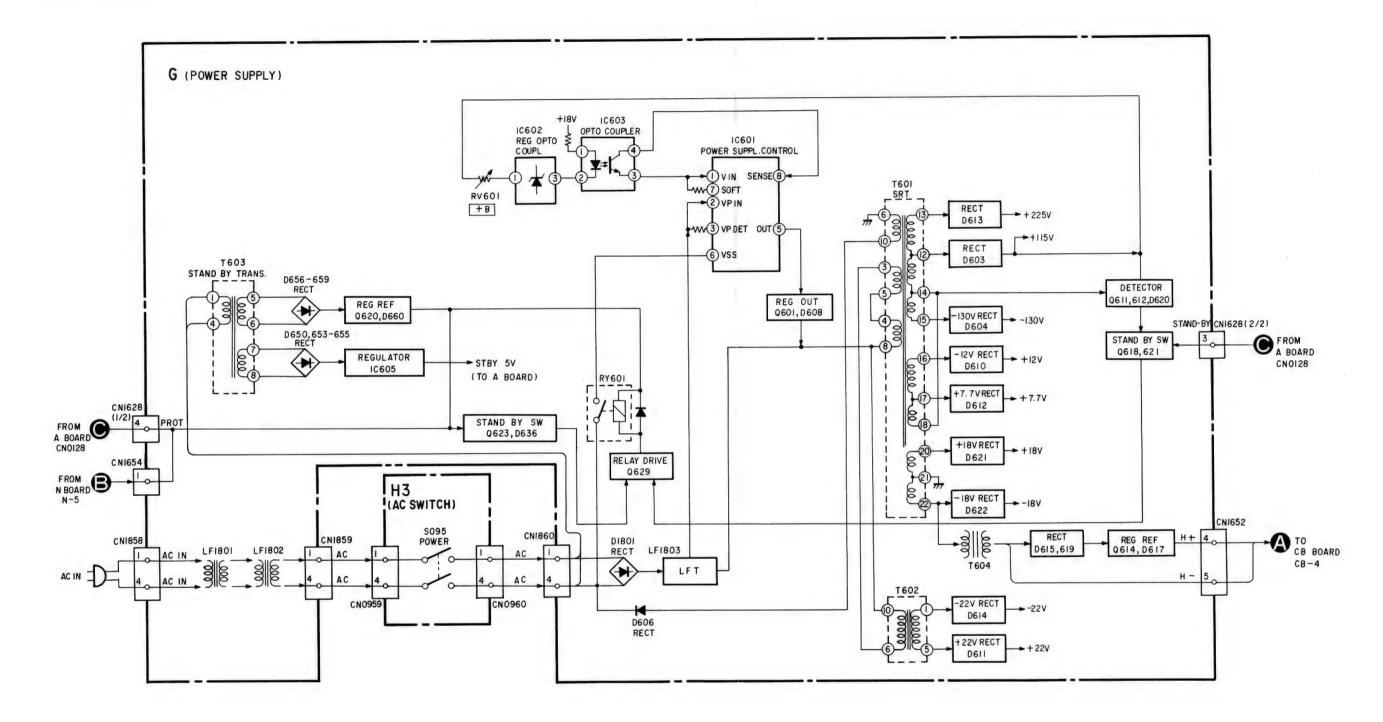
6-3. CHASSIS



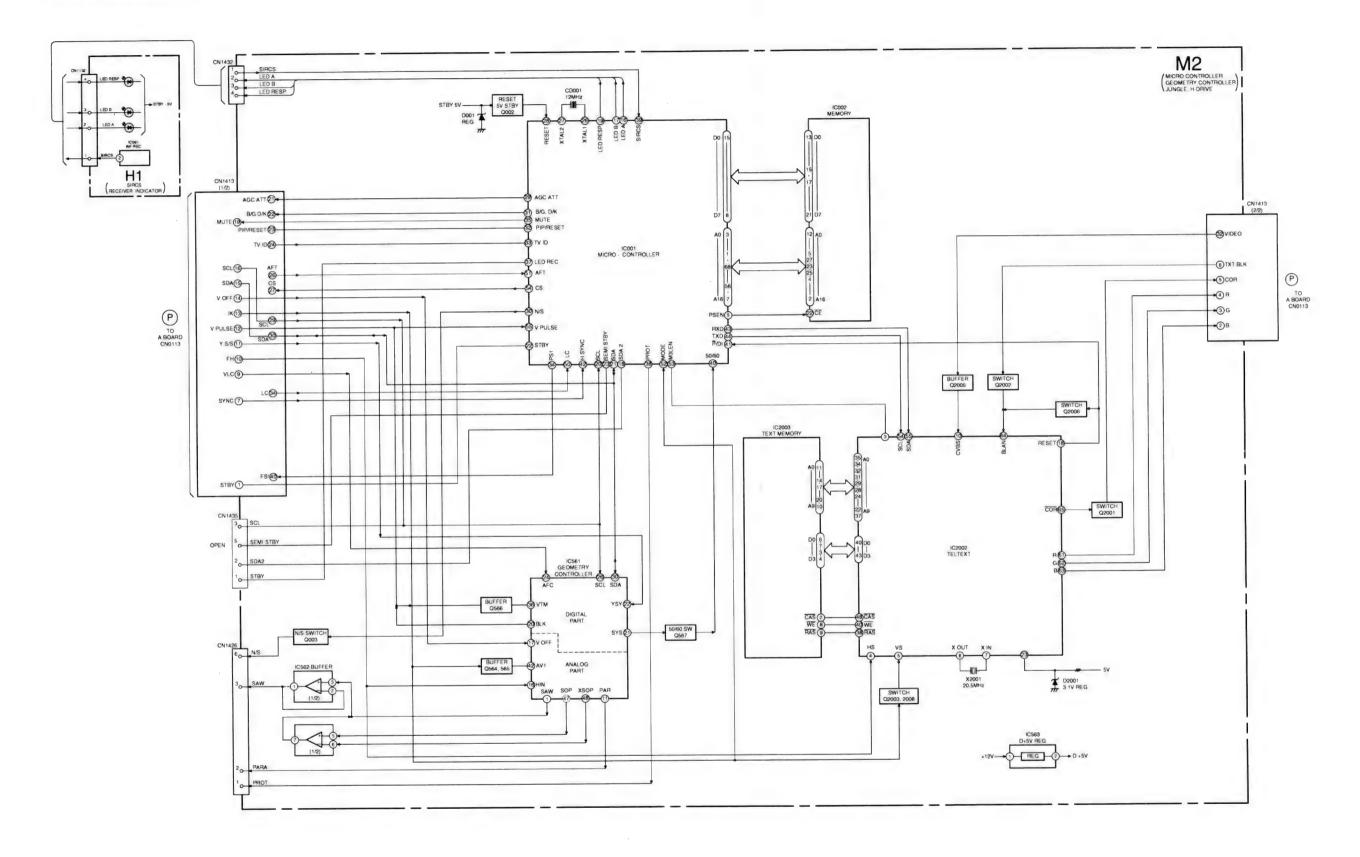
6-4. PICTURE TUBES

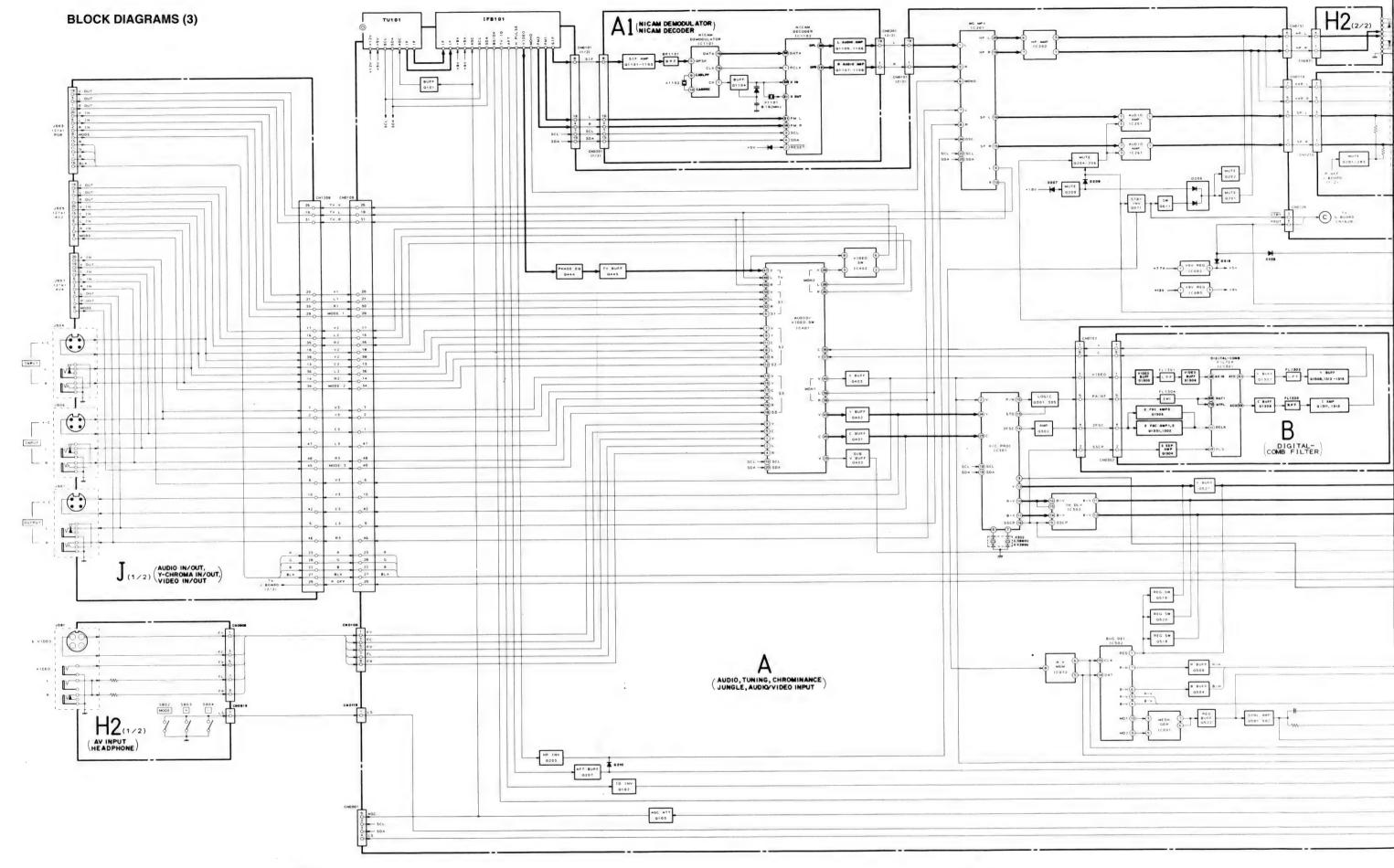


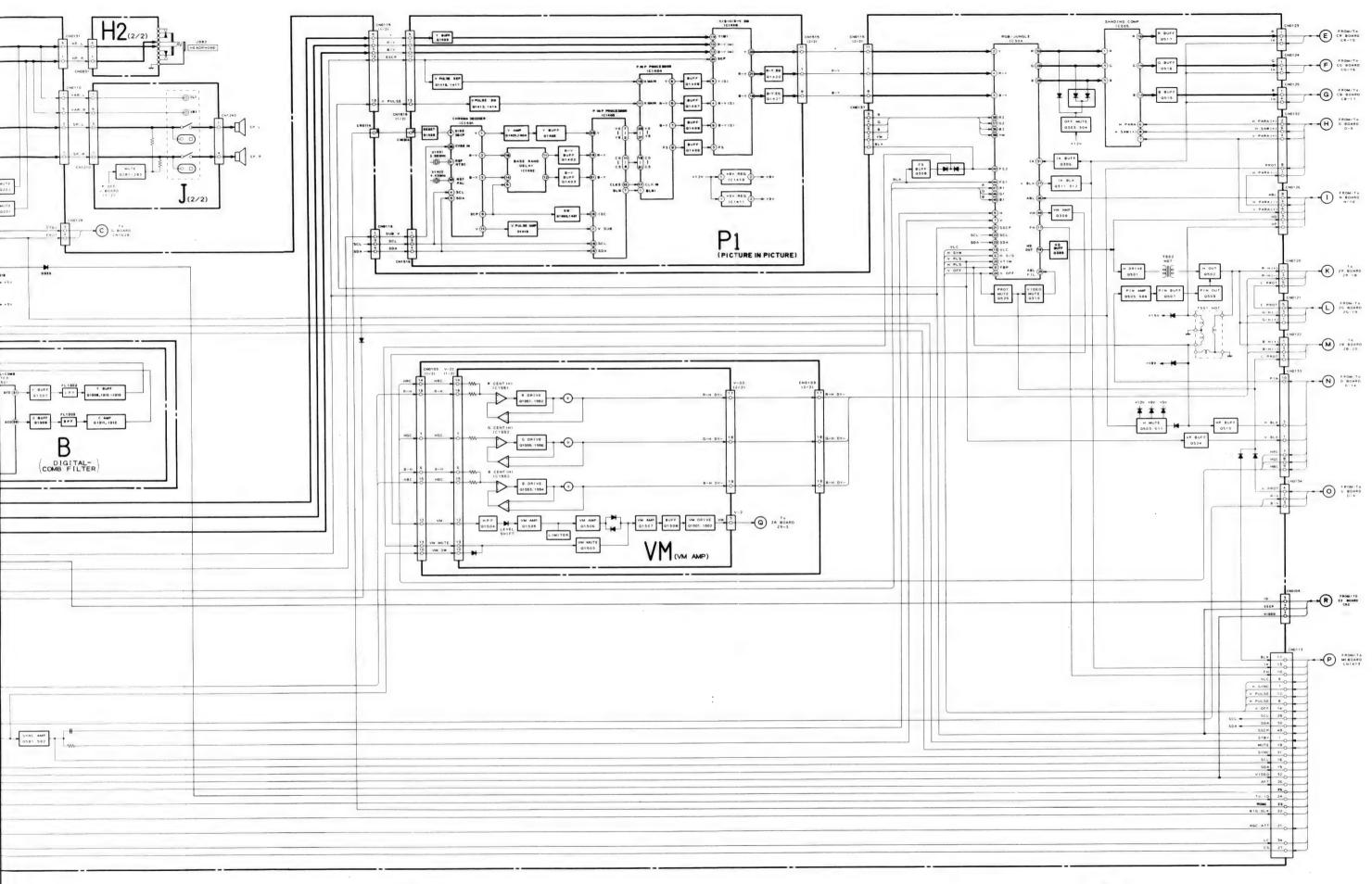
5-1. BLOCK DIAGRAMS (1)

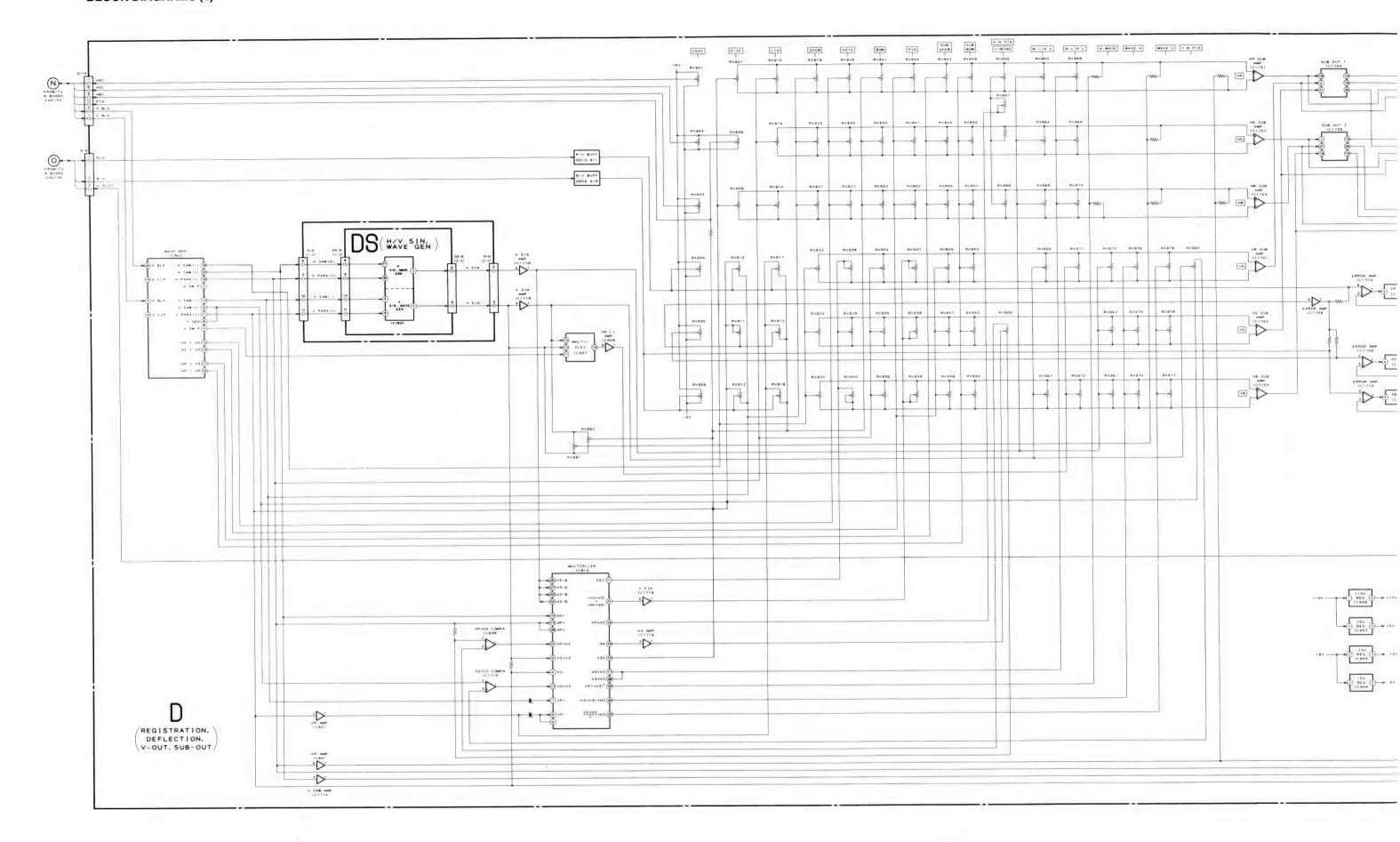


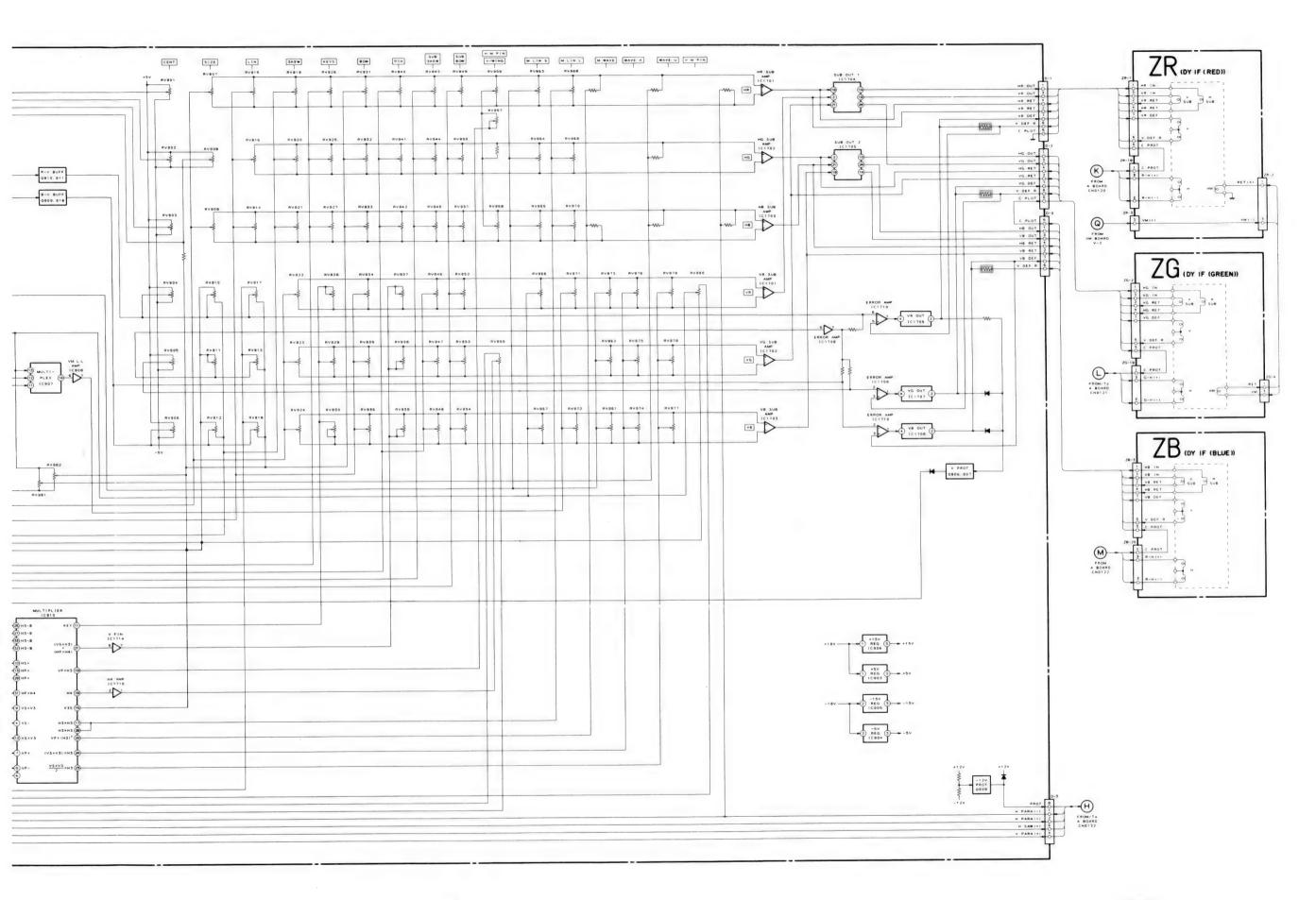
BLOCK DIAGRAMS (2)



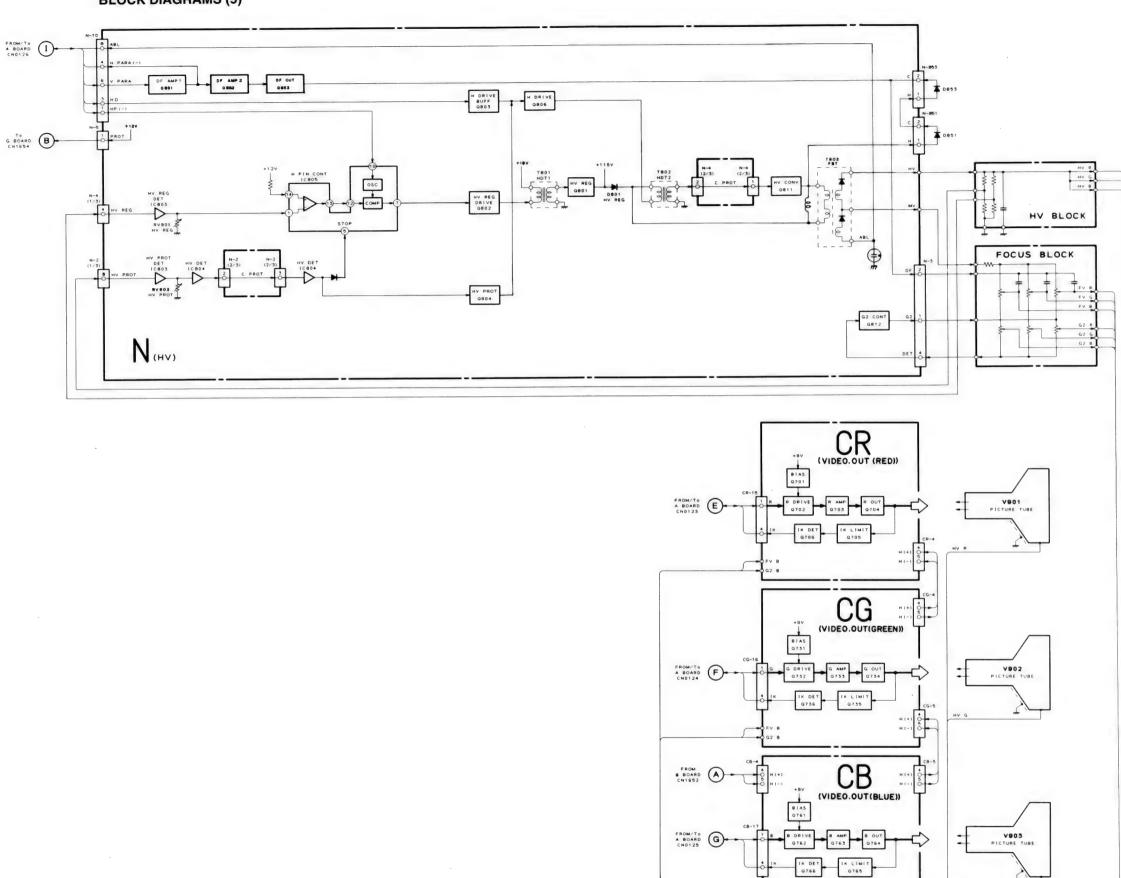




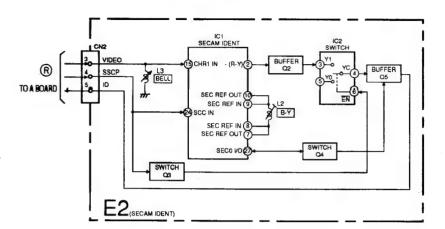




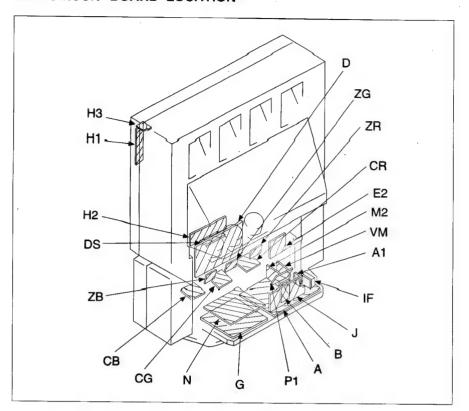
BLOCK DIAGRAMS (5)



BLOCK DIAGRAMS (6)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.

k = 1000, M = 1000K

 Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 4 W

: nonflammable resistor.
: internal component.

• panel designation, or adjustment for repair.

All variable and adjustable resistors have characteristic curve
 B, unless otherwise noted.

i earth - ground.
iii : earth - chassis.
iii : no mounted.

Note: The components identified by shading and marked are critical for safety. Replace only with part number specified.

Reference information

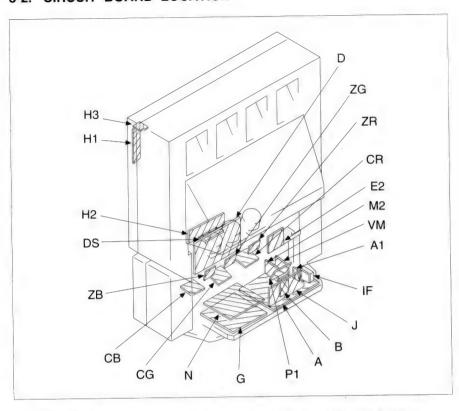
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ×	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
. •	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
 - Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.

: B+ bus

• : signal path. (RF)

5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and

50WV or less are not indicated except for electrolytic a tantalums.

All resistors are in ohms.

k = 1000, M = 1000K

 Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

: nonflammable resistor.: internal component.

• panel designation, or adjustment for repair.

All variable and adjustable resistors have characteristic curve

 Description poted.

B, unless otherwise noted.

\(\precedum : \text{earth - ground.} \)

• : earth - chassis.

Note: The components identified by shading and marked

: no mounted.

are critical for safety. Replace only with part number specified.

Reference information

RESISTOR : RN METAL FILM
: RC SOLID
: FPRD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE

: RS NONFLAMMABLE METAL OXIDE : RB NONFLAMMABLE CEMENT : RW NONFLAMMABLE WIREWOUND

: X ADJUSTABLE RESISTOR : LF-8L MICRO INDUCTOR

COIL : LF-8L MICRO INDUCTOR

CAPACITOR : TA TANTALUM

: PS STYROL

: PP POLYPROPYLENE : PT MYLAR

: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

Readings are taken with a colour-bar signal input. Readings are taken with 10M digital multimeter.

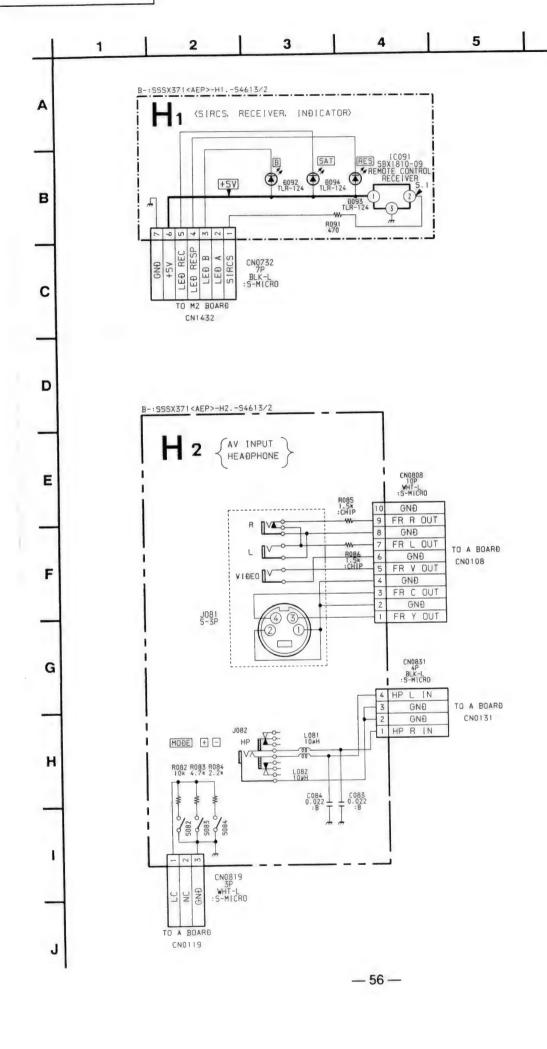
Voltages are dc with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production

All voltages are in V.

Circled numbers are waveform references.

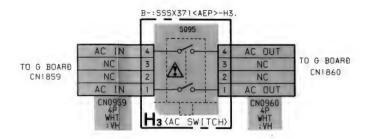
: signal path. (RF)



8

TO G BOARĐ CN1859 B-: SSSX371 < AEP>-

7 | 8 | 9 | 10 | 11

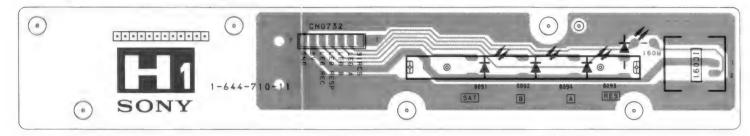




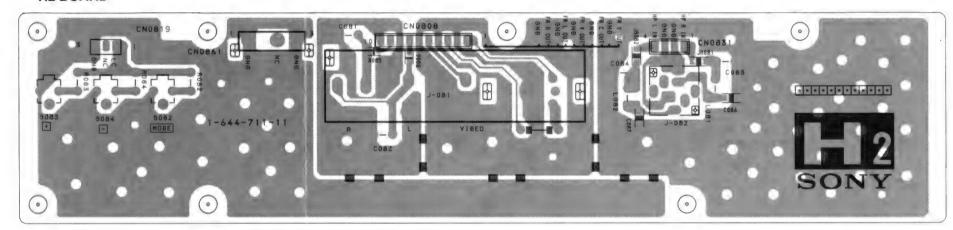




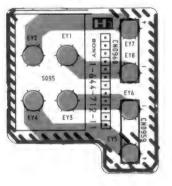
- H1 BOARD -

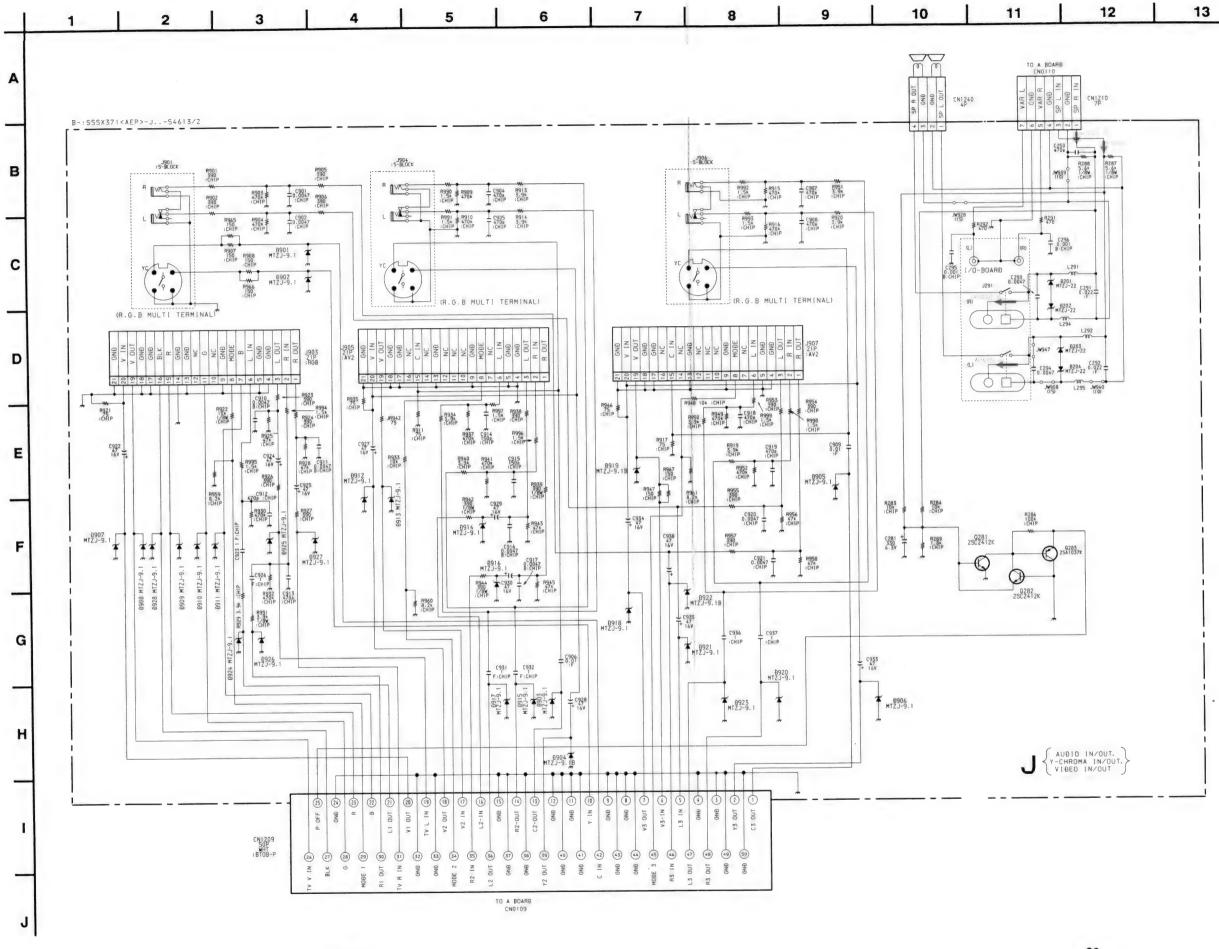


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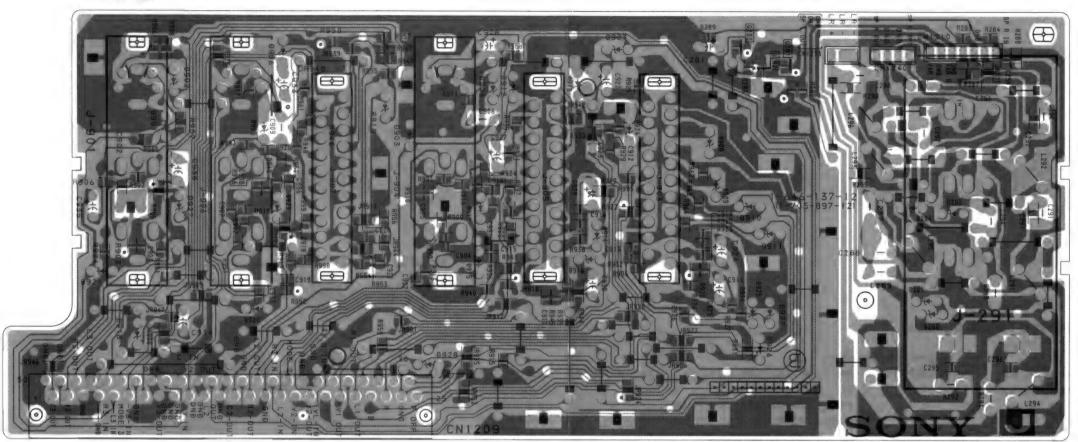


- H3 BOARD -



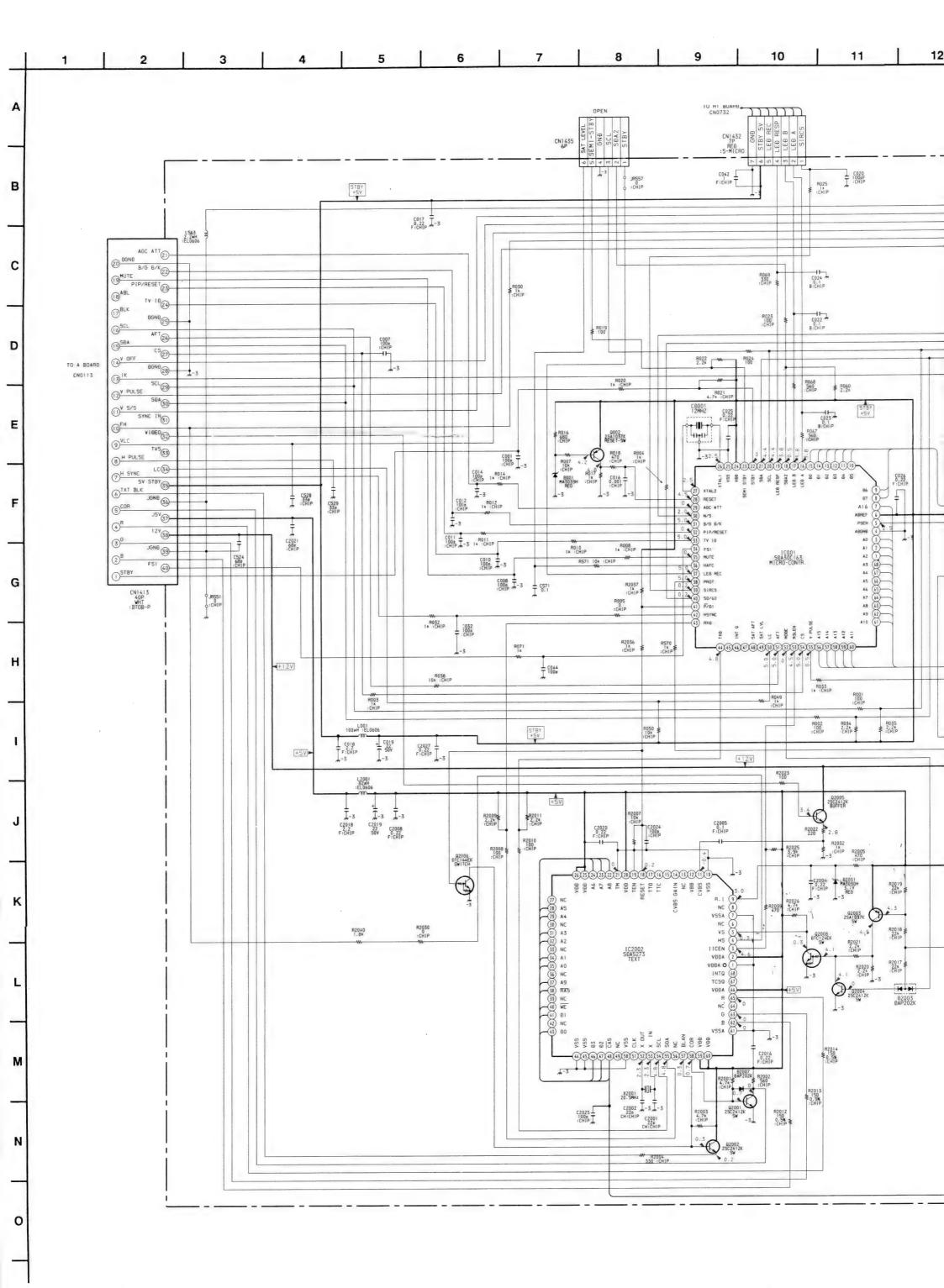


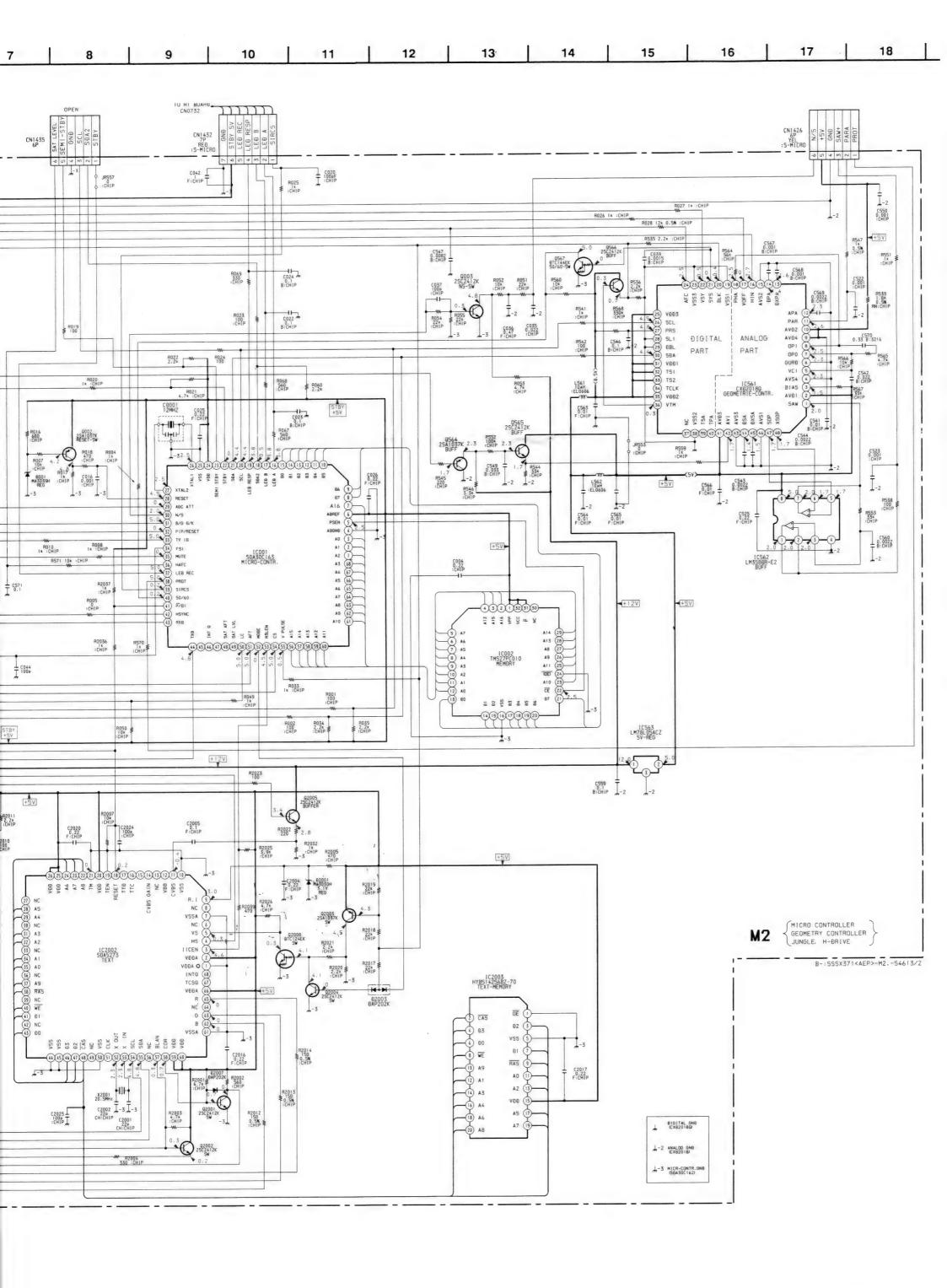
- J BOARD -



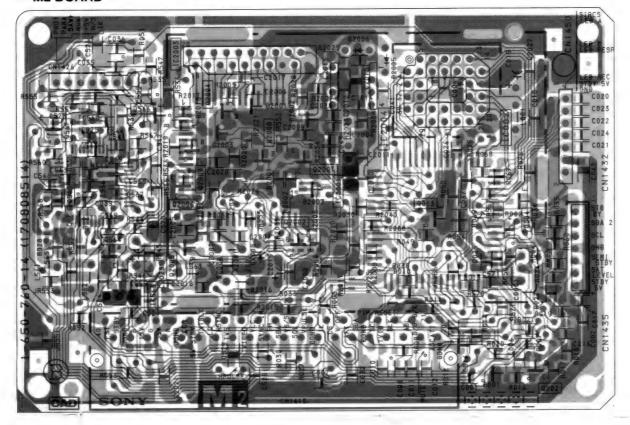
Pattern from the side which enables seeing.

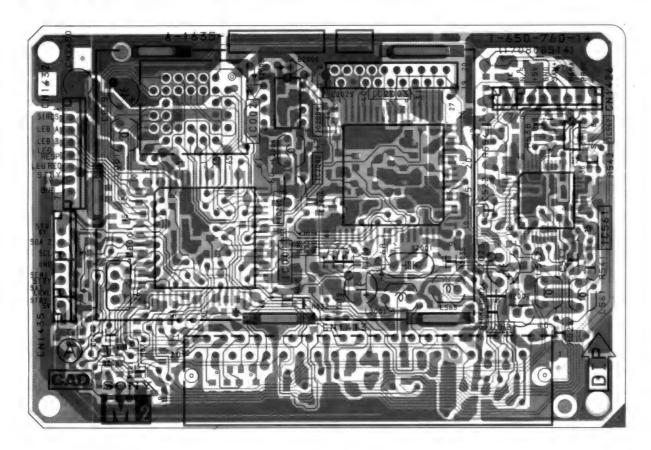
Pattern of the rear side.





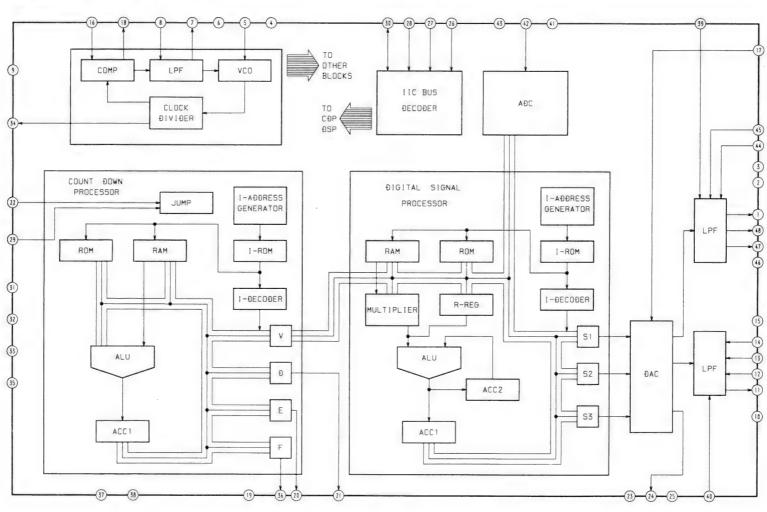
- M2 BOARD -





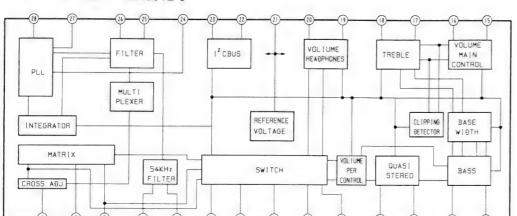
- Pattern from the side which enables seeing.
- Pattern of the rear side.

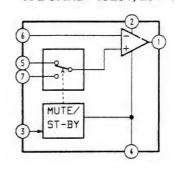
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A BOARD IC201 TDA6612-5

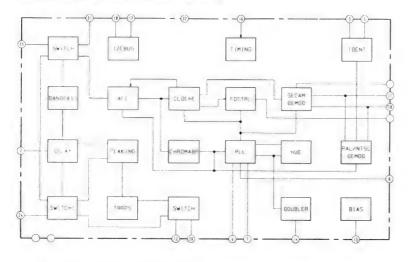
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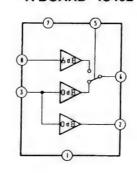




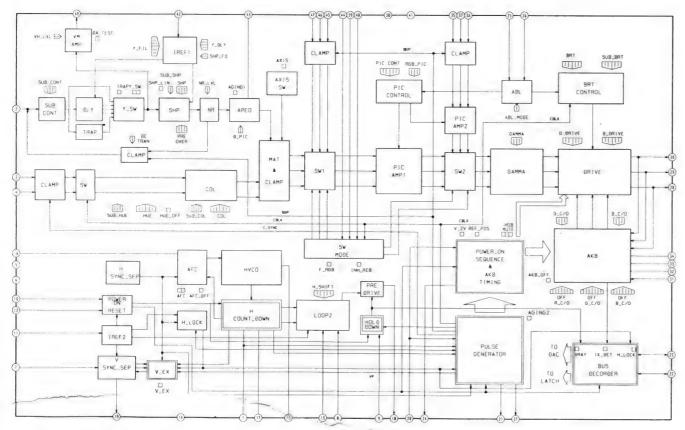
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A BOARD IC402 TEA2114

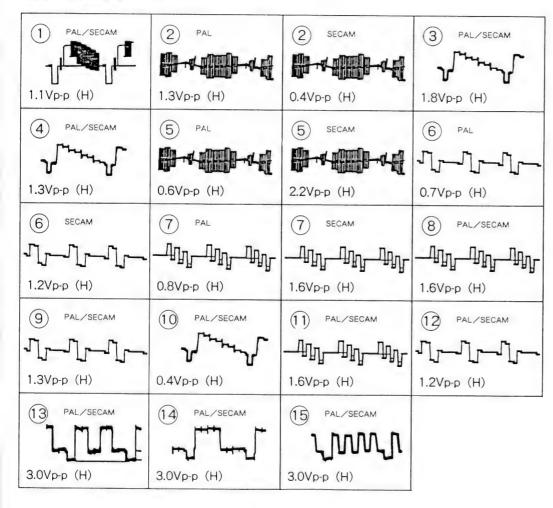




A BOARD IC304 CXA1587S



WAVEFORMS A BOARD

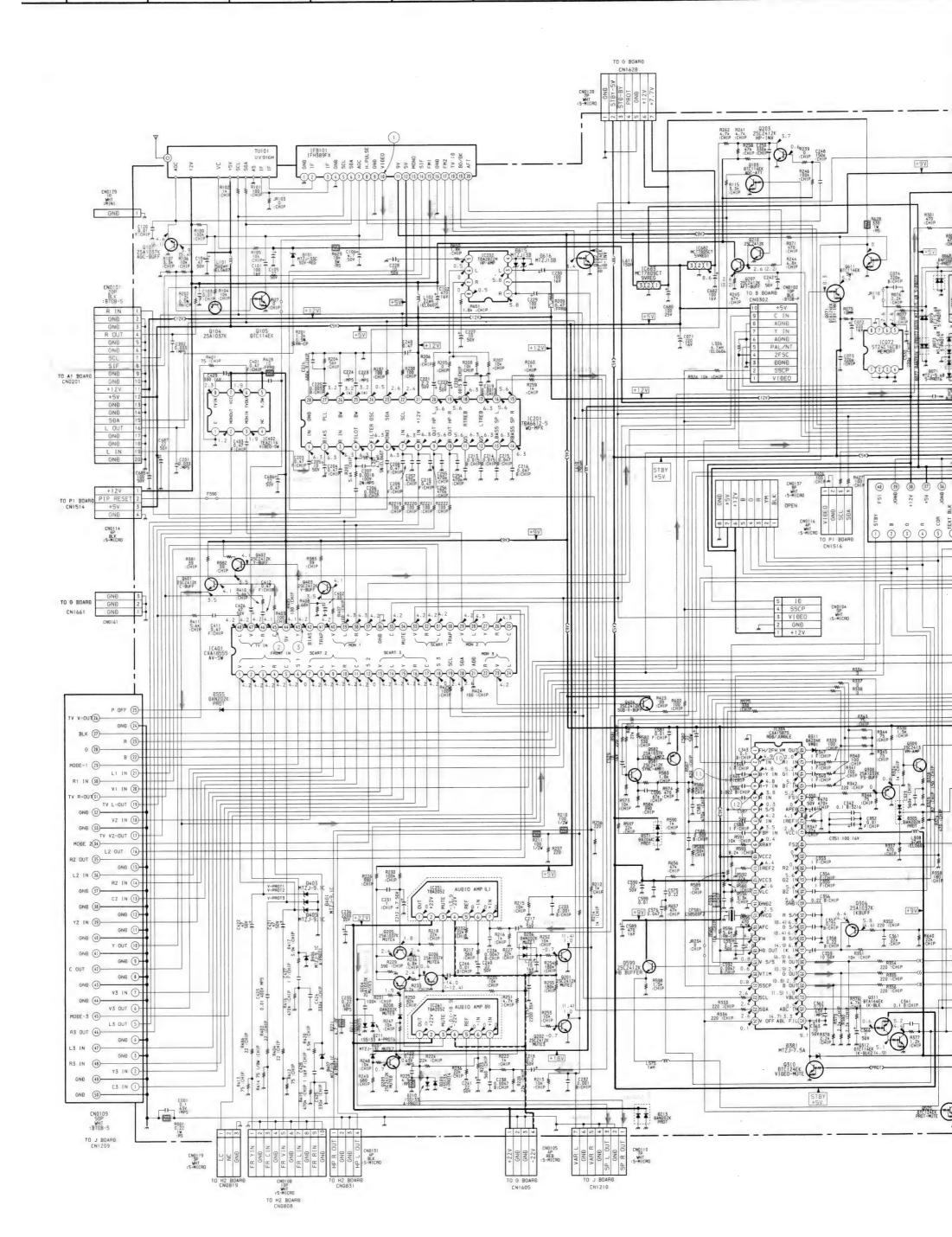


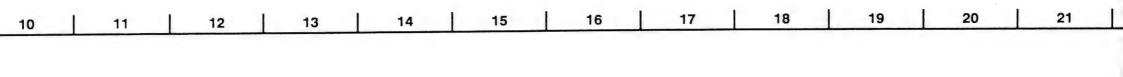
R503 0.47 :FPR8

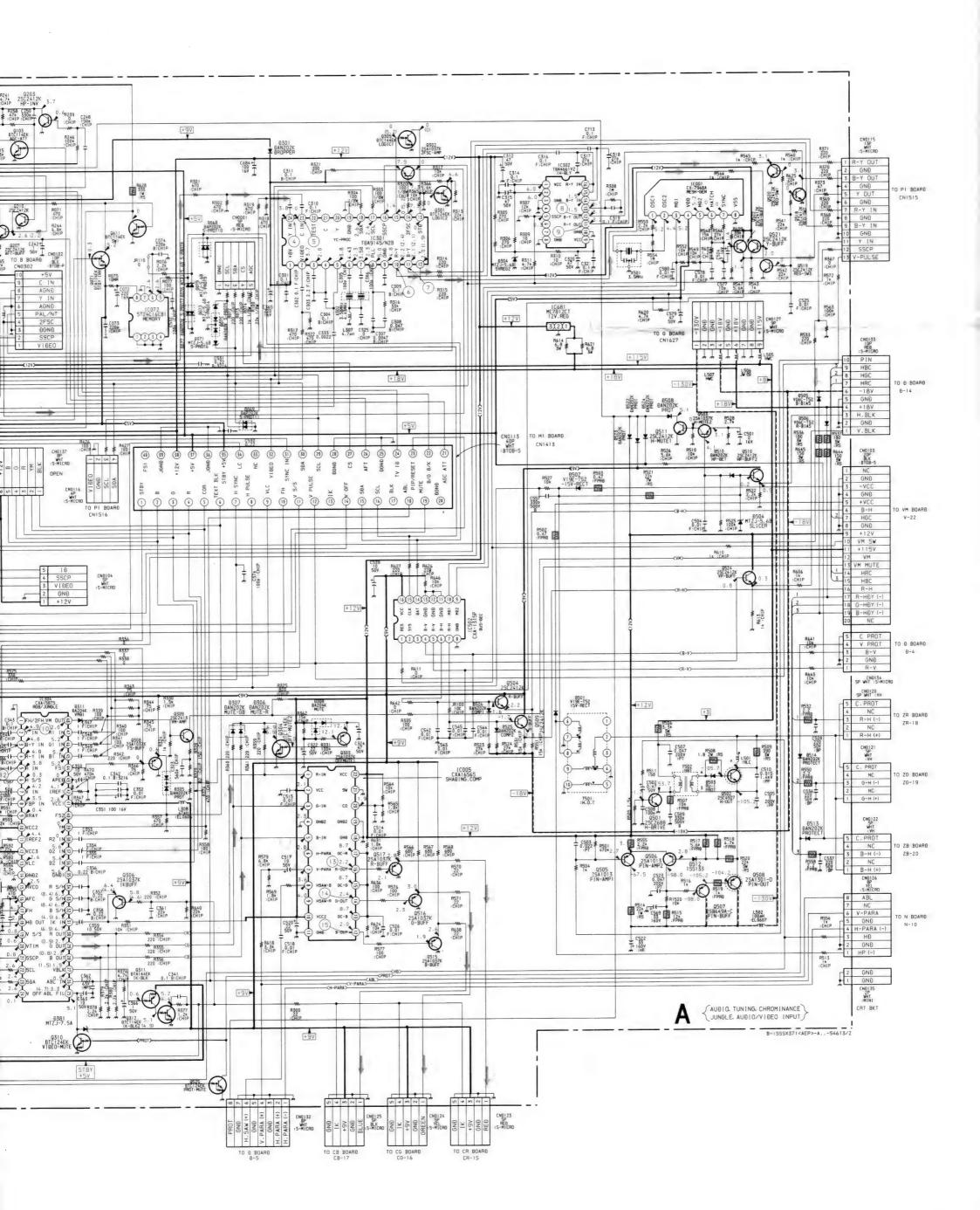
> RS01 470k2

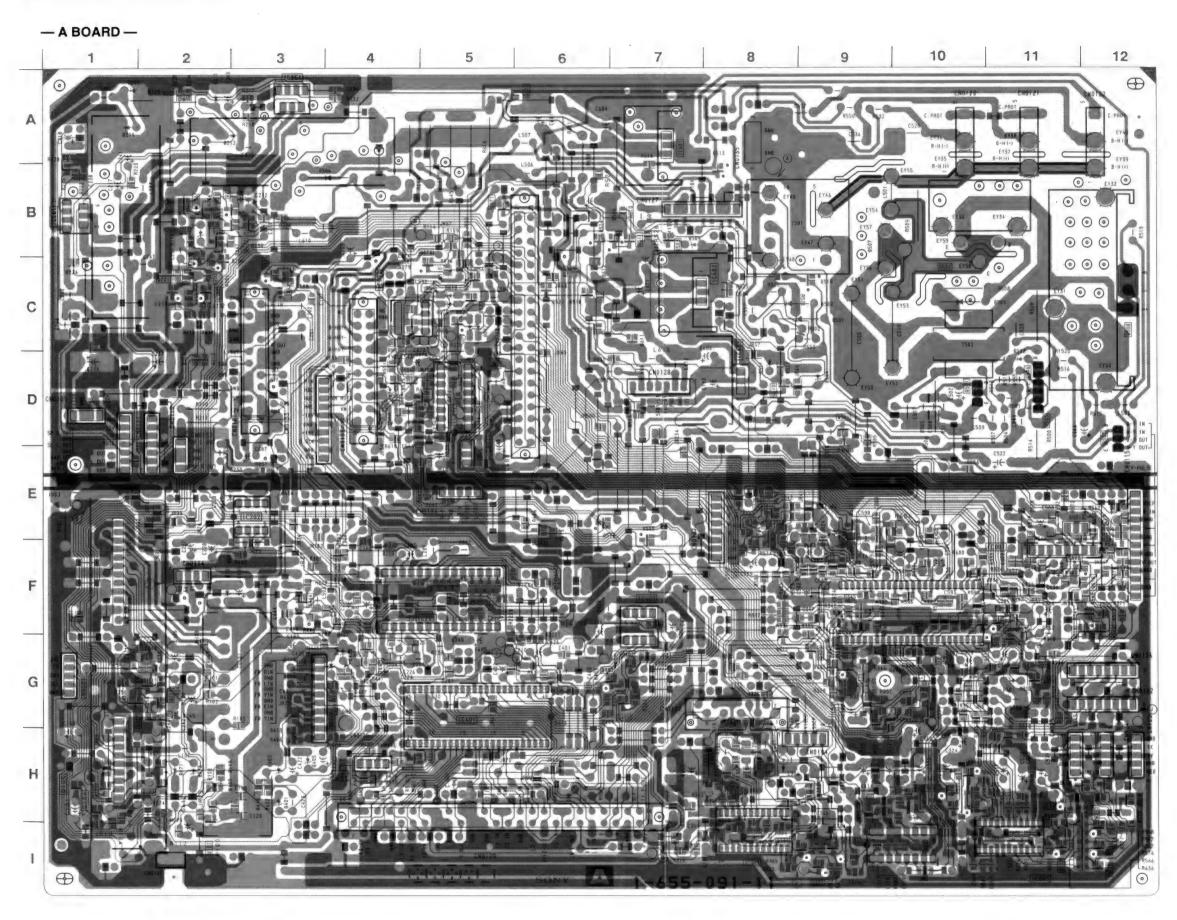
17

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12







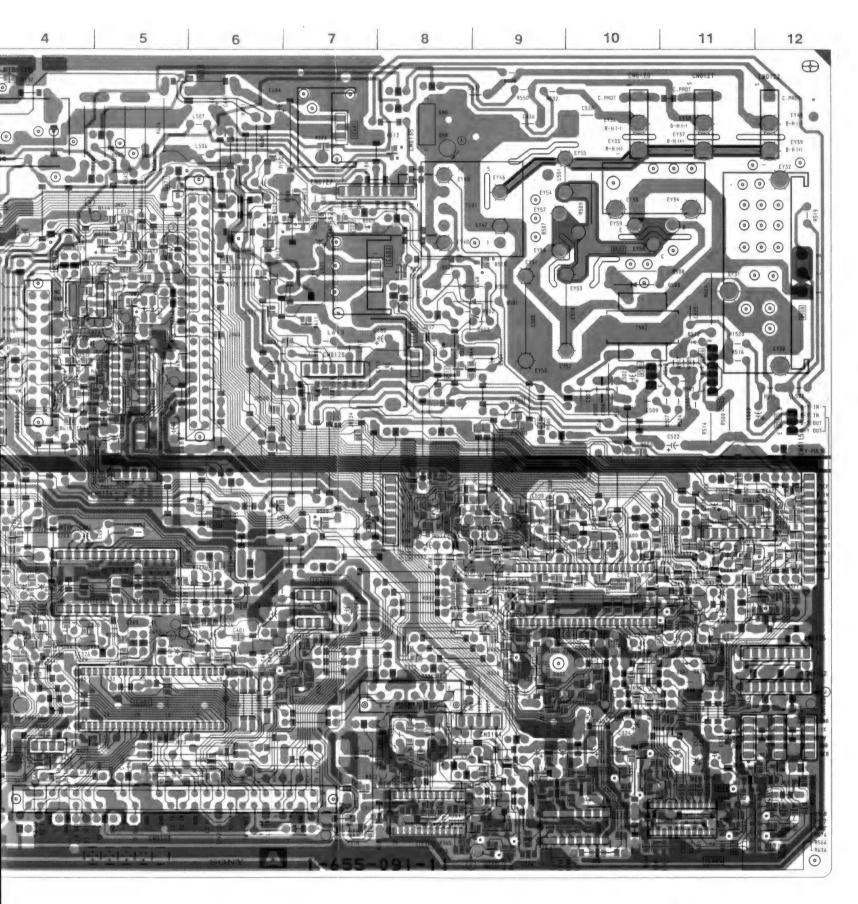


- A BOARD -

		_	
IC			
IC001 IC005 IC072 IC201 IC202 IC251 IC261 IC301 IC302 IC304 IC401 IC402 IC502 IC681 IC682 IC683	F-11 I-11 C-4 F-5 E-3 A-3 B-1 I-8 I-10 G-10 G-5 F-7 D-5 A-7 C-8 D-8		
TRANS	SISTOR	0	
Q071 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205	B-5 I-2 H-1 H-2 H-1 H-1 C-2 C-2 G-2 B-3 B-2		
Q206 Q207	B-2 G-2		
Q209 Q210 Q301 Q302 Q303 Q304 Q305 Q306 Q308 Q309 Q310	G-2 G-2 I-9 I-9 H-10 H-10 I-9 G-11 G-9 G-9		

Pattern from the side which enables

• Pattern of the rear side.



- A BOARD -

— A BUARU —					
IC		Q311	F-10	D208	B-2
10001	=	Q312	F-11	D209	A-1
IC001	F-11	Q401	G-7	D210	A-1
IC005	I-11	Q402	G-7	D211	A-2
IC072	C-4	Q403	G-7	D212	A-2
IC201	F-5	Q404	H-4	D213	C-1
IC202	E-3	Q501	D-10	D301	H-7
IC251	A-3	Q502	C-10	D304	H-10
IC261	B-1	Q503	B-7	D305	G-9
IC301	1-8	Q504	D-4	D306	H-10
IC302	I-10	Q505	D-11	D307	H-10
IC304	G-10	Q506	D-11	D308	H-10
IC401	G-5	Q507	D-12	D311	G-8
IC402	F-7	Q508	C-12	D381	G-11
IC502	D-5	Q509	D-4	D401	H-3
IC681	A-7	Q510	D-8	D403	H-3
IC682	C-8	Q511	B-7	D405	H-3
IC683	D-8	Q515	1-12	D406	G-4
TDANIO	IOTOD	Q516	I-12	D407	G-4
THANS	TRANSISTOR		1-12	D501	C-9
Q071	B-5	Q518	F-12	D502	C-9
Q101	1-2	Q519	F-12	D503	C-10
Q102	H-1	Q520	F-12	D504	D-9
Q103	H-2	Q521	F-12	D505	B-5
Q104	H-1	Q522	F-12	D506	B-3
Q105	H-1	Q524	F-6	D508	B-7
Q201	C-2	Q525	F-11	D510	C-9
Q202	C-2	Q581	F-8	D512	D-11
Q203	G-2	Q582	E-8	D513	A-8
Q204	B-3	Q599	D-9	D514	E-6
Q205	B-2	Q611	A-6	D522	C-6
Q206	B-2	Dic	ND.E	D523	D-7
Q207	G-2	DIODE		D524	B-6
Q209	C-2	D068	C-5	D525	D-4
Q210	G-2	D069	G-2	D526	D-4
Q301	1-9	D071	H-2	D555	E-7
Q302	1-9	D073	H-2	D571	E-9
Q303	H-10	D075	H-2	D615	E-2
Q304	H-10	D073	C-5	D616	E-3
Q305	1-9	D078	C-5		
Q306	G-11	D079	C-5		
Q308	G-9	D101	F-2		
Q309	G-9	D206	C-2		
Q310	G-11	D207	B-2		
43.0	<u> </u>	1 220,	- L		

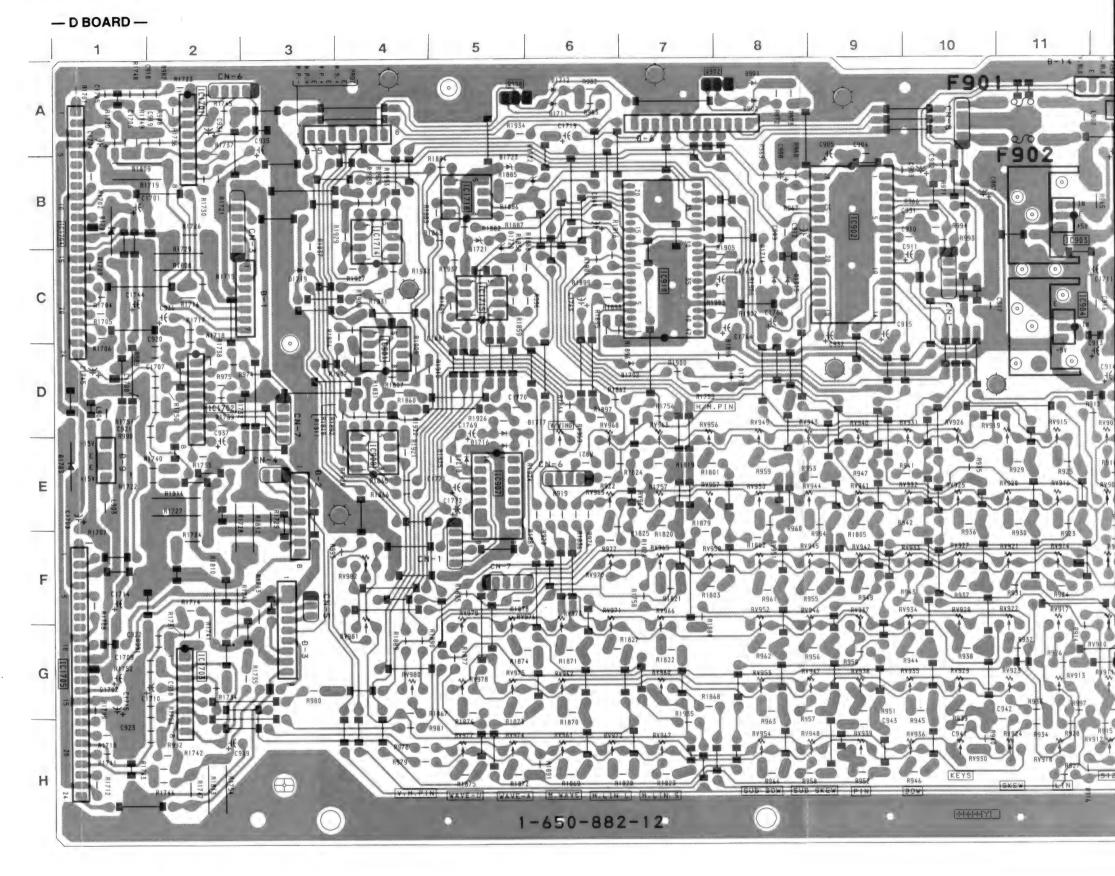
Pattern from the side which enables seeing.

Pattern of the rear side.



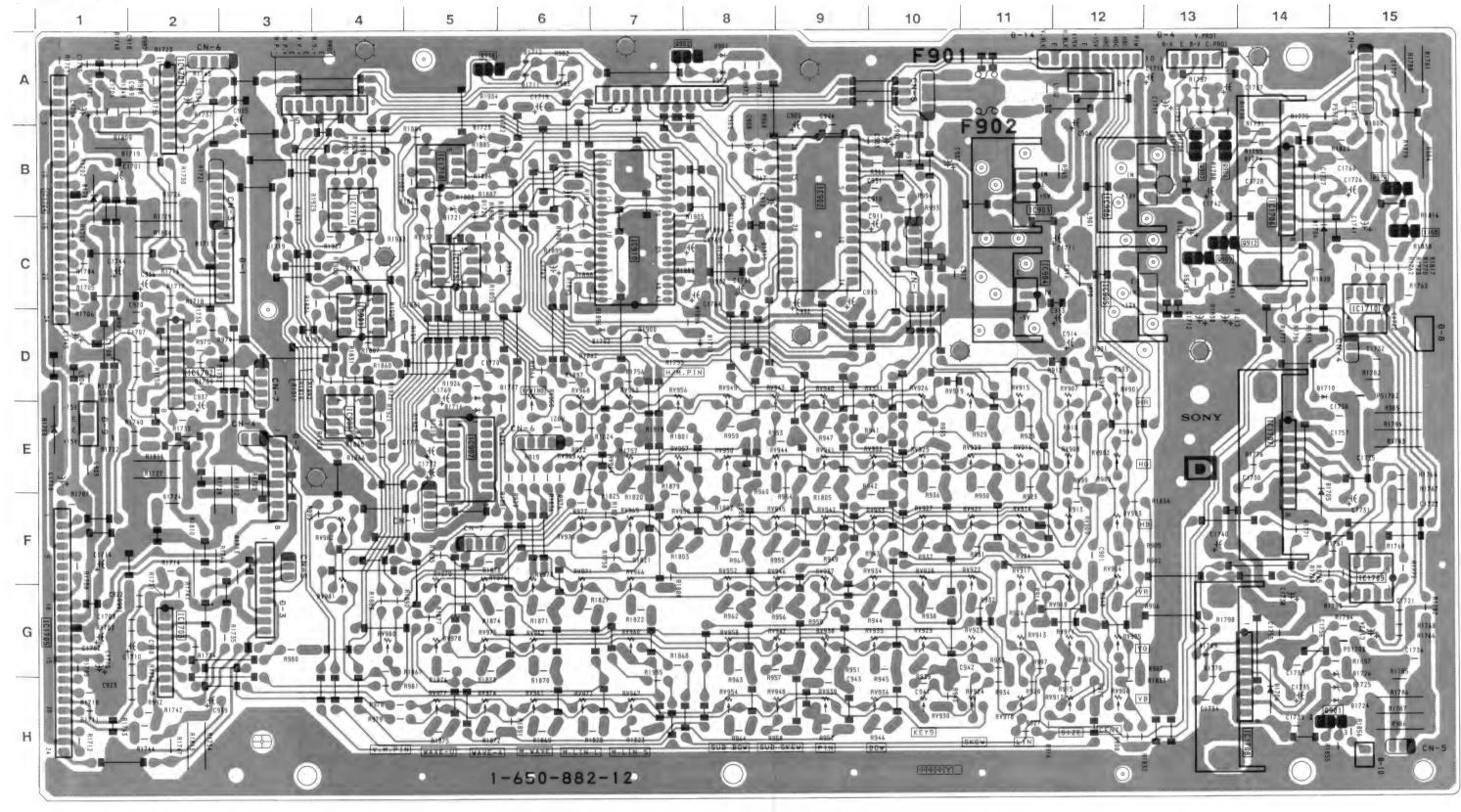
- D BOARD -

IC901	IC		D1712	A-6	RV934	F-10
IC901 D-4 D1714 C-8 RV936 H-10 IC902 B-9 D1715 C-8 RV937 F-9 IC903 B-11 D1716 E-5 RV938 G-9 IC904 C-11 D1717 D-5 RV939 H-9 IC905 C-12 D1718 E-5 RV940 D-9 IC906 B-12 D1720 B-5 RV941 E-9 IC907 E-5 D1721 B-5 RV942 F-9 IC908 E-4 D1722 B-6 RV943 D-9 IC910 C-7 D1723 B-5 RV944 E-9 IC910 C-7 D1723 B-5 RV944 E-9 IC910 C-7 D1723 B-5 RV944 E-9 IC1701 A-2 RESISTOR RV945 F-9 IC1703 G-2 IC1705 G-1 RV902 E-12 RV946 F-9 IC1706 C-14 RV902 E-12 RV949 D-8 IC1707 E-14 RV902 E-12 RV950 E-8 IC1708 H-14 IC1709 F-15 RV906 H-12 RV951 F-8 IC1709 F-15 RV906 H-12 RV953 G-8 IC1710 D-15 RV907 D-12 RV954 H-8 IC1718 B-5 RV906 H-12 RV955 E-7 IC1718 B-5 RV910 G-12 RV955 E-7 IC1718 B-5 RV910 G-12 RV955 D-6 RV911 G-12 RV955 D-6 RV912 H-12 RV966 D-7 RV913 G-11 RV962 G-6 RV914 F-11 RV963 D-7 RV915 D-11 RV964 E-7 Q908 A-5 RV916 E-11 RV966 F-7 Q909 C-13 RV915 D-11 RV966 F-7 Q910 B-15 RV916 E-11 RV967 H-7 Q910 A-8 RV917 F-12 RV966 D-7 DIODE RV922 E-11 RV970 F-6 RV922 F-11 RV970 F-6 RV922 F-11 RV971 F-6 RV922 F-11 RV971 F-6 RV922 F-11 RV975 F-5 RV910 G-13 RV930 D-10 RV975 G-5 D1704 C-14 RV929 G-10 RV975 G-5 D1708 A-13 RV930 D-10 RV980 G-4 D1709 G-13 RV933 E-10 RV981 F-4 D1710 D-14 RV933 F-10 RV982 F-4 RV933 F-10 RV982 F-4 RV933 F-10 RV982 F-4 RV933 F-10 RV982 F-4 RV933 RV935 RV935 F-10 RV985 F-4 RV933 RV935 RV935 RV985 F-10 RV985 F-4 RV933 RV935 RV985 RV985 F-4 RV934 RV935 RV985 RV985	IC					
IC902 B-9 D1715 C-8 RV937 F-9 IC903 B-11 D1716 E-5 RV938 G-9 IC904 C-11 D1717 D-5 RV939 H-9 IC905 C-12 D1718 E-5 RV940 D-9 IC906 B-12 D1720 B-5 RV941 E-9 IC907 E-5 D1721 B-5 RV942 F-9 IC908 E-4 D1722 B-6 RV943 D-9 IC910 C-7 D1723 B-5 RV944 E-9 IC910 C-7 D1723 B-5 RV944 E-9 IC1701 A-2 IC1702 D-2 IC1703 G-2 IC1704 B-2 RV901 D-12 RV945 F-9 IC1705 G-1 IC1706 C-14 RV902 E-12 RV949 D-8 IC1706 C-14 RV903 F-12 RV950 E-8 IC1707 E-14 RV904 F-12 RV950 E-8 IC1709 F-15 RV906 H-12 RV951 F-8 IC1709 F-15 RV906 H-12 RV953 G-8 IC1710 D-15 RV907 D-12 RV954 H-8 IC1714 B-4 RV908 E-12 RV955 E-7 IC1718 B-5 RV910 G-12 RV955 E-7 IC1718 B-5 RV911 G-12 RV956 D-7 IC1718 B-5 RV914 F-11 RV966 F-7 RV906 B-13 RV914 F-11 RV966 F-7 RV907 D-11 RV966 F-7 RV908 A-5 RV916 E-11 RV965 F-7 RV909 C-13 RV917 F-12 RV966 F-7 RV901 RV919 D-11 RV968 D-6 RV921 F-11 RV969 E-6 RV922 F-11 RV970 F-6 RV922 F-11 RV971 F-6 RV921 F-11 RV972 H-6 RV922 F-11 RV973 F-6 RV923 G-10 RV975 G-5 RV976 F-5 RV996 G-4 D1707 A-13 RV930 H-10 RV977 F-5 D1708 A-13 RV931 D-10 RV980 G-4 D1709 G-13 RV932 E-10 RV981 G-5 RV933 F-10 RV982 F-4	IC901	D-4	_			
IC903	IC902	B-9				F-9
IC904	IC903	B-11		E-5	RV938	G-9
IC905	IC904	C-11				-
IC906	IC905	C-12		_		
IC907 E-5 D1721 B-5 RV942 F-9 IC908 E-4 D1722 B-6 RV943 D-9 IC910 C-7 D1723 B-5 RV944 E-9 IC1701 A-2 VARIABLE RESISTOR RV945 F-9 IC1702 D-2 RESISTOR RV946 F-9 IC1703 G-2 RV901 D-12 RV948 H-9 IC1704 B-2 RV901 D-12 RV948 H-9 IC1705 G-1 RV902 E-12 RV949 D-8 IC1706 C-14 RV903 F-12 RV950 E-8 IC1707 E-14 RV904 F-12 RV951 F-8 IC1708 H-14 RV905 G-12 RV952 F-8 IC1709 F-15 RV906 H-12 RV953 G-8 IC1710 D-15 RV907 D-12 RV954 H-8 IC1714 B-4 RV908 E-12 RV956 D-7 IC1715 C-5 RV909 F-12 RV957 E-7 IC1718 B-5 RV910 G-12 RV958 F-7 TRANSISTOR RV911 G-12 RV958 D-6 RV912 H-12 RV964 E-7 Q902 A-7 RV913 G-11 RV962 G-6 RV913 G-11 RV963 D-7 Q906 B-13 RV915 D-11 RV964 E-7 Q907 B-13 RV915 D-11 RV964 E-7 Q908 A-5 RV916 E-11 RV965 F-7 Q909 C-13 RV917 F-12 RV966 F-7 Q910 B-15 RV918 H-11 RV967 H-6 Q911 C-15 RV919 D-11 RV968 D-6 RV922 F-11 RV969 E-6 RV923 G-11 RV970 F-6 RV923 G-11 RV971 F-6 RV923 G-11 RV972 H-6 RV923 G-11 RV975 G-5 DIODE RV924 H-11 RV977 F-6 RV925 F-10 RV977 F-5 D1704 C-14 RV927 F-10 RV977 F-5 D1705 R-14 RV929 G-10 RV978 G-5 D1706 H-14 RV929 G-10 RV978 G-5 D1707 A-13 RV930 H-10 RV979 F-5 D1708 A-13 RV931 D-10 RV980 G-4 D1709 G-13 RV932 E-10 RV981 G-4 D1710 D-14 RV933 F-10 RV982 F-4	IC906	B-12				
IC908	IC907	E-5				
IC910		E-4				
IC1701		C-7				
IC1702 D-2 C1703 G-2 IC1703 G-2 IC1704 B-2 RESISTOR RV947 G-9 RV947 G-9 RV947 G-9 RV947 G-9 RV947 G-9 RV947 G-9 RV948 H-9 RV947 G-9 RV948 H-9 RV947 G-9 RV948 H-9 RV950 E-8 RV949 D-8 RV950 E-8 RV950 E-8 RV950 E-8 RV950 E-8 RV950 E-8 RV950 E-8 RV950 G-12 RV952 F-8 RV906 H-12 RV953 G-8 RV907 D-12 RV954 H-8 RV908 E-12 RV956 D-7 RV909 F-12 RV956 D-7 RV909 F-12 RV957 E-7 RV911 G-12 RV958 F-7 RV911 G-12 RV958 F-7 RV911 G-12 RV959 D-6 RV912 H-12 RV963 D-7 RV913 G-11 RV962 G-6 RV914 F-11 RV963 D-7 RV966 F-7 RV916 E-11 RV968 D-6 RV912 F-11 RV968 D-6 RV912 F-11 RV970 F-6 RV921 F-11 RV970 F-6 RV921 F-11 RV971 F-6 RV922 F-11 RV973 F-6 RV923 G-11 RV975 G-5 RV924 H-11 RV975 G-5 RV926 D-10 RV975 G-5 RV926 D-10 RV975 G-5 RV926 D-10 RV975 G-5 RV926 RV927 RV926 RV927 RV926 RV977 RV926 RV977 RV926 RV977 RV926 RV977 RV926 RV977 RV977 RV926 RV977 RV977 RV978 G-5 RV978 G-5 RV978 G-5 RV978 G-10 RV978 G-5 RV978 G-10 RV979 F-5 RV978 G-10 RV978 G-5 RV978 G-10 RV979 F-5 RV980 G-4 RV933 F-10 RV980 G-4 RV983 F-10 RV980 G-4 RV933 F-10 RV982 F-4 RV982 F-4 RV982 F-4 RV983 F-10 RV982 F-4 RV9			D1723	D-3		
C1703 G-2 RESISTOR RV947 G-9 C1704 B-2 RV901 D-12 RV948 H-9 C1705 G-1 RV902 E-12 RV949 D-8 C1706 C-14 RV903 F-12 RV950 E-8 C1707 E-14 RV904 F-12 RV951 F-8 C1708 H-14 RV905 G-12 RV952 F-8 C1709 F-15 RV906 H-12 RV953 G-8 C1710 D-15 RV907 D-12 RV954 H-8 C1714 B-4 RV908 E-12 RV956 D-7 C1715 C-5 RV909 F-12 RV957 E-7 C1718 B-5 RV910 G-12 RV958 F-7 TRANSISTOR RV911 G-12 RV958 F-7 TRANSISTOR RV913 G-11 RV962 G-6 RV912 H-12 RV961 H-6 Q902 A-7 RV913 G-11 RV962 G-6 RV914 F-11 RV963 D-7 Q906 B-13 RV914 F-11 RV963 D-7 Q907 B-13 RV915 D-11 RV964 E-7 Q908 A-5 RV916 E-11 RV965 F-7 Q909 C-13 RV917 F-12 RV966 F-7 Q910 B-15 RV918 H-11 RV967 H-7 Q911 C-15 RV919 D-11 RV968 D-6 RV921 F-11 RV969 E-6 RV922 F-11 RV970 F-6 RV922 F-11 RV970 F-6 RV922 F-11 RV971 F-6 RV922 F-11 RV973 F-6 RV922 F-10 RV975 G-5 D1704 C-14 RV927 F-10 RV975 G-5 D1705 F-14 RV928 F-10 RV975 G-5 D1706 H-14 RV929 G-10 RV978 G-5 D1707 A-13 RV930 H-10 RV979 F-5 D1708 A-13 RV931 D-10 RV980 G-4 D1710 D-14 RV933 F-10 RV982 F-4 RV982 F-4 RV982 F-4 RV982 F-10 RV981 G-4 D1710 D-14 RV933 F-10 RV982 F-4						
IC1704 B-2 RV901 D-12 RV948 H-9 IC1705 G-1 RV902 E-12 RV949 D-8 IC1706 C-14 RV903 F-12 RV950 E-8 IC1707 E-14 RV904 F-12 RV951 F-8 IC1708 H-14 RV905 G-12 RV952 F-8 IC1709 F-15 RV906 H-12 RV953 G-8 IC1710 D-15 RV907 D-12 RV954 H-8 IC1714 B-4 RV908 E-12 RV956 D-7 IC1715 C-5 RV909 F-12 RV957 E-7 IC1718 B-5 RV910 G-12 RV958 F-7 IC1718 B-5 RV911 G-12 RV959 D-6 RV912 H-12 RV961 H-6 RV906 B-13 RV914 F-11 RV963 D-7 RV906 B-13 RV914 F-11 RV963 D-7 RV909 G-13 RV915 D-11 RV964 E-7 RV910 B-15 RV918 H-11 RV966 F-7 RV910 B-15 RV918 H-11 RV966 E-6 RV912 G-14 RV920 E-11 RV968 D-6 RV921 F-11 RV969 E-6 RV922 F-11 RV970 F-6 RV922 F-11 RV970 F-6 RV922 F-11 RV970 F-6 RV922 F-11 RV971 F-6 RV922 F-10 RV975 G-5 TV926 D-10 RV976 F-5 TV926 D-10 RV977 F-5 TV926 D-10 RV978 G-5 TV926 D-10 RV978 G-5 TV926 D-10 RV978 G-5 TV926 D-10 RV978 G-5 TV926 D-10 RV979 F-5 TV926 D-10 RV980 G-4 TV933 F-10 RV982 F-4 TV980 F-4 TV980 F-4 TV980 F-4 TV980 TV980 F-4 TV980 F-4 TV980			RESIS	TOR		
IC1705 G-1 RV902 E-12 RV949 D-8 IC1706 C-14 RV903 F-12 RV950 E-8 IC1707 E-14 RV904 F-12 RV951 F-8 IC1708 H-14 RV905 G-12 RV952 F-8 IC1709 F-15 RV906 H-12 RV953 G-8 IC1710 D-15 RV907 D-12 RV954 H-8 IC1714 B-4 RV908 E-12 RV956 D-7 IC1715 C-5 RV909 F-12 RV957 E-7 IC1718 B-5 RV910 G-12 RV958 F-7 IC1718 B-5 RV911 G-12 RV959 D-6 RV912 H-12 RV961 H-6 RV906 B-13 RV914 F-11 RV963 D-7 RV906 B-13 RV915 D-11 RV964 E-7 RV909 G-13 RV917 F-12 RV966 F-7 RV910 B-15 RV918 H-11 RV967 H-7 RV911 G-12 RV968 D-6 RV912 G-14 RV920 E-11 RV968 D-6 RV912 F-11 RV969 E-6 RV921 F-11 RV969 E-6 RV922 F-11 RV970 F-6 RV922 F-11 RV970 F-6 RV922 F-11 RV971 F-6 RV923 G-10 RV974 H-5 D1704 C-14 RV926 E-10 RV975 G-5 D1704 C-14 RV927 F-10 RV976 F-5 T1705 F-14 RV928 F-10 RV977 H-5 T1706 H-14 RV929 G-10 RV978 G-5 T1708 A-13 RV930 H-10 RV979 F-5 T1708 A-13 RV931 D-10 RV980 G-4 RV933 F-10 RV981 G-4 RV933 F-10 RV982 F-4		-	DVOO	D 10		
IC1706						
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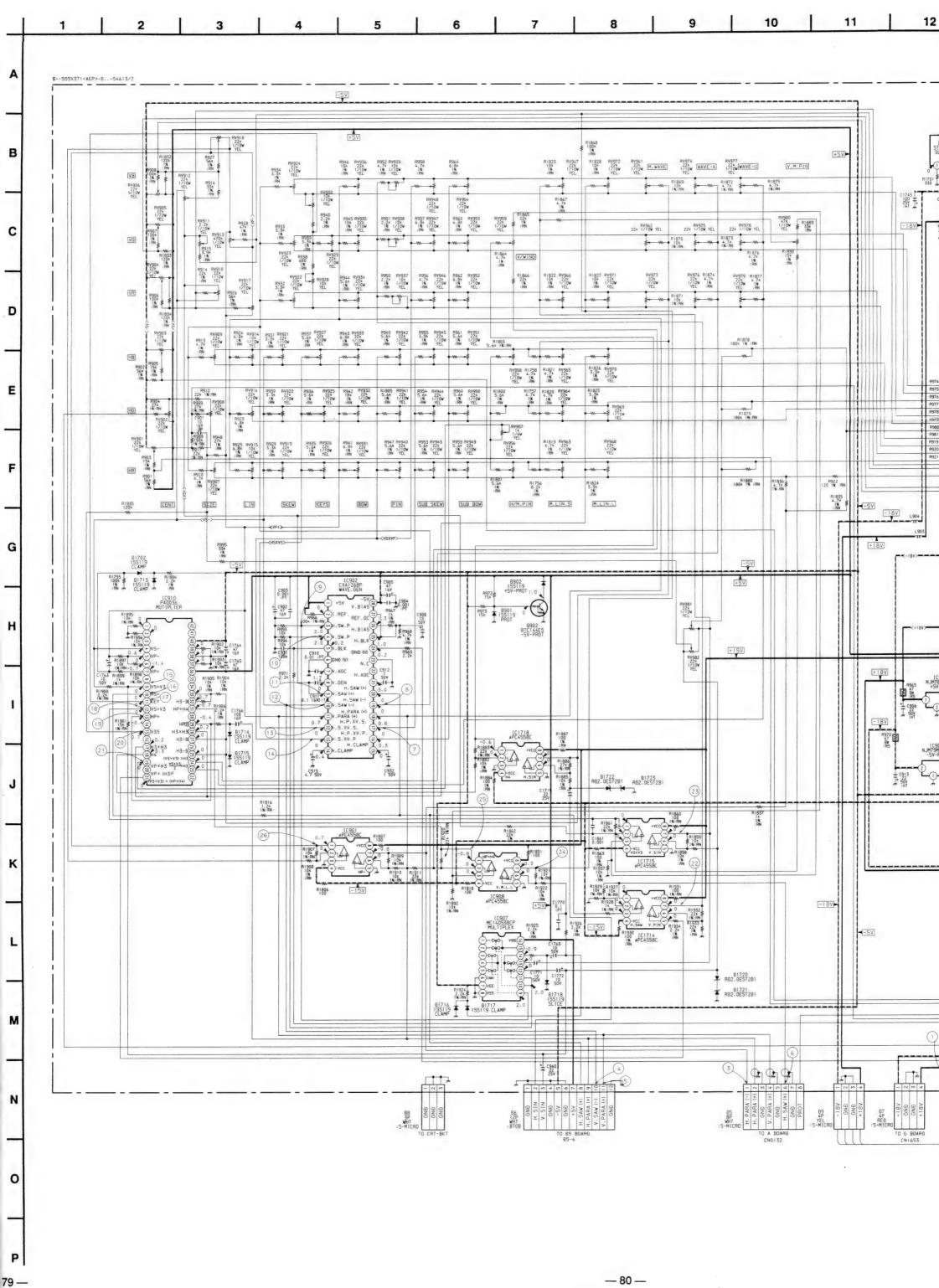


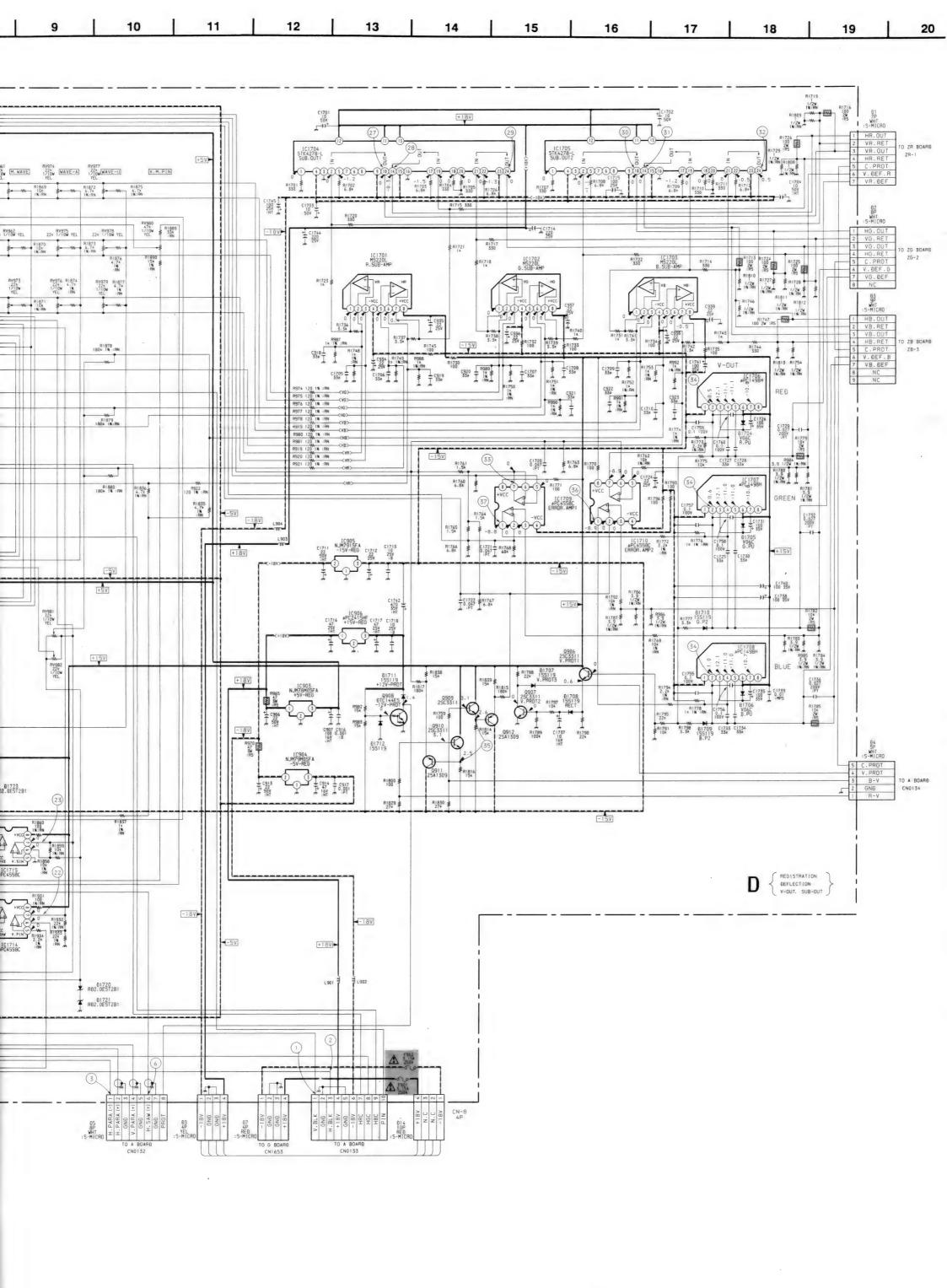


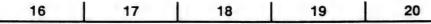
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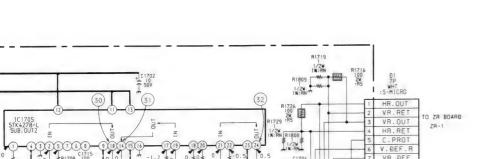


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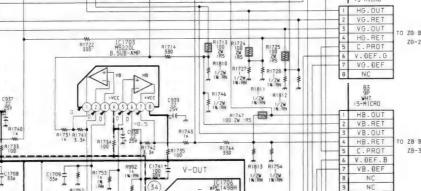


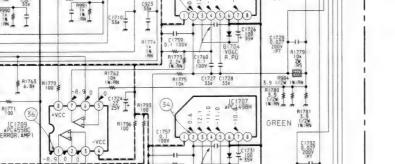


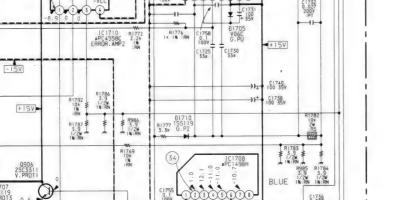




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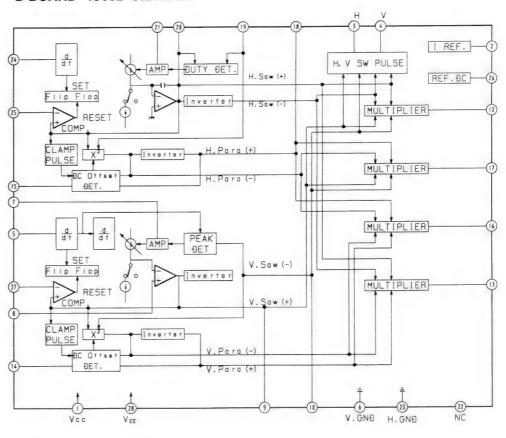




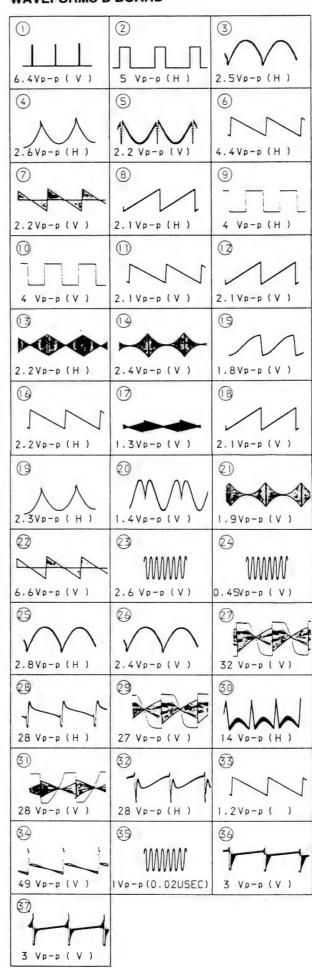
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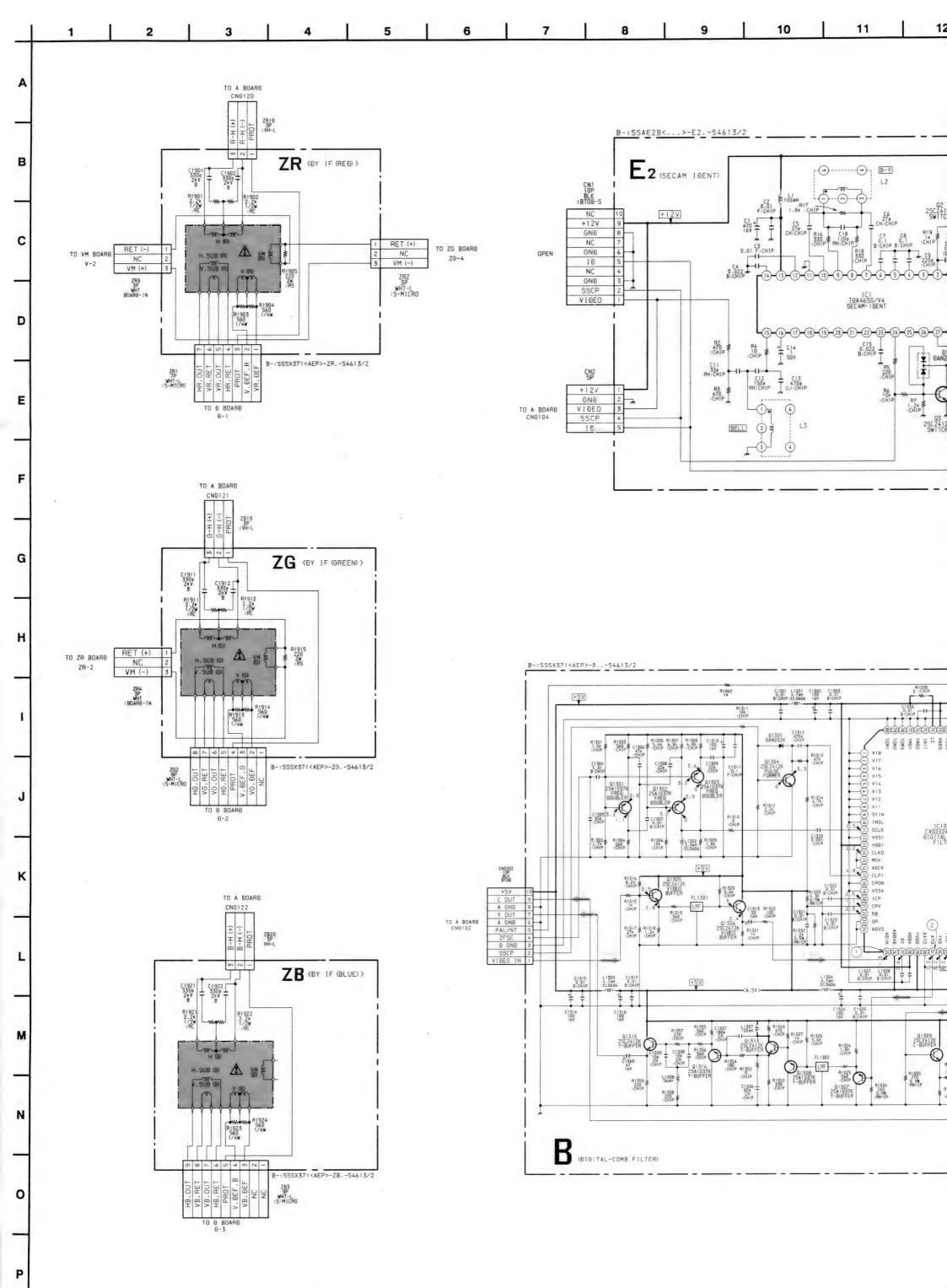
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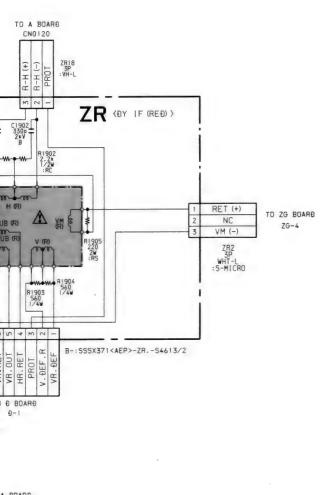


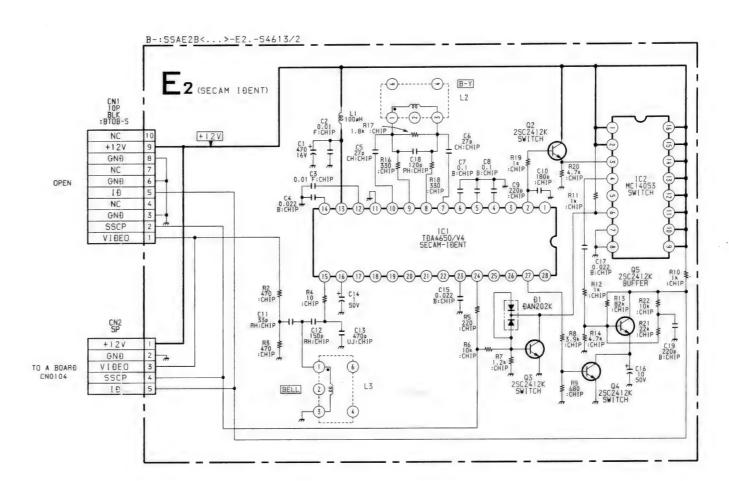
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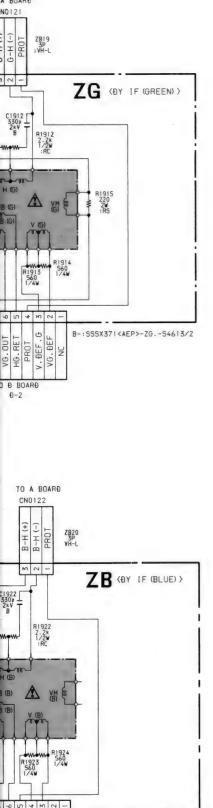


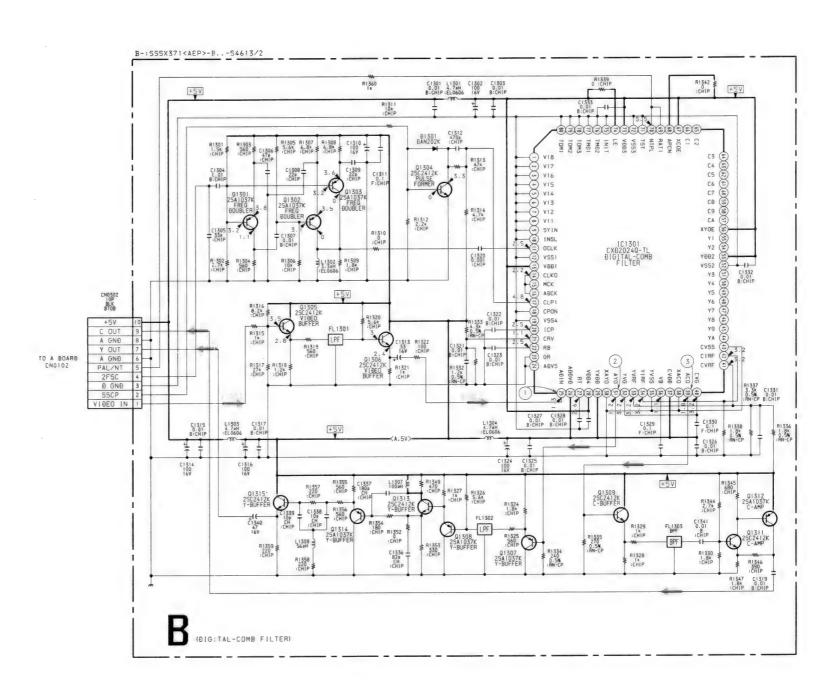
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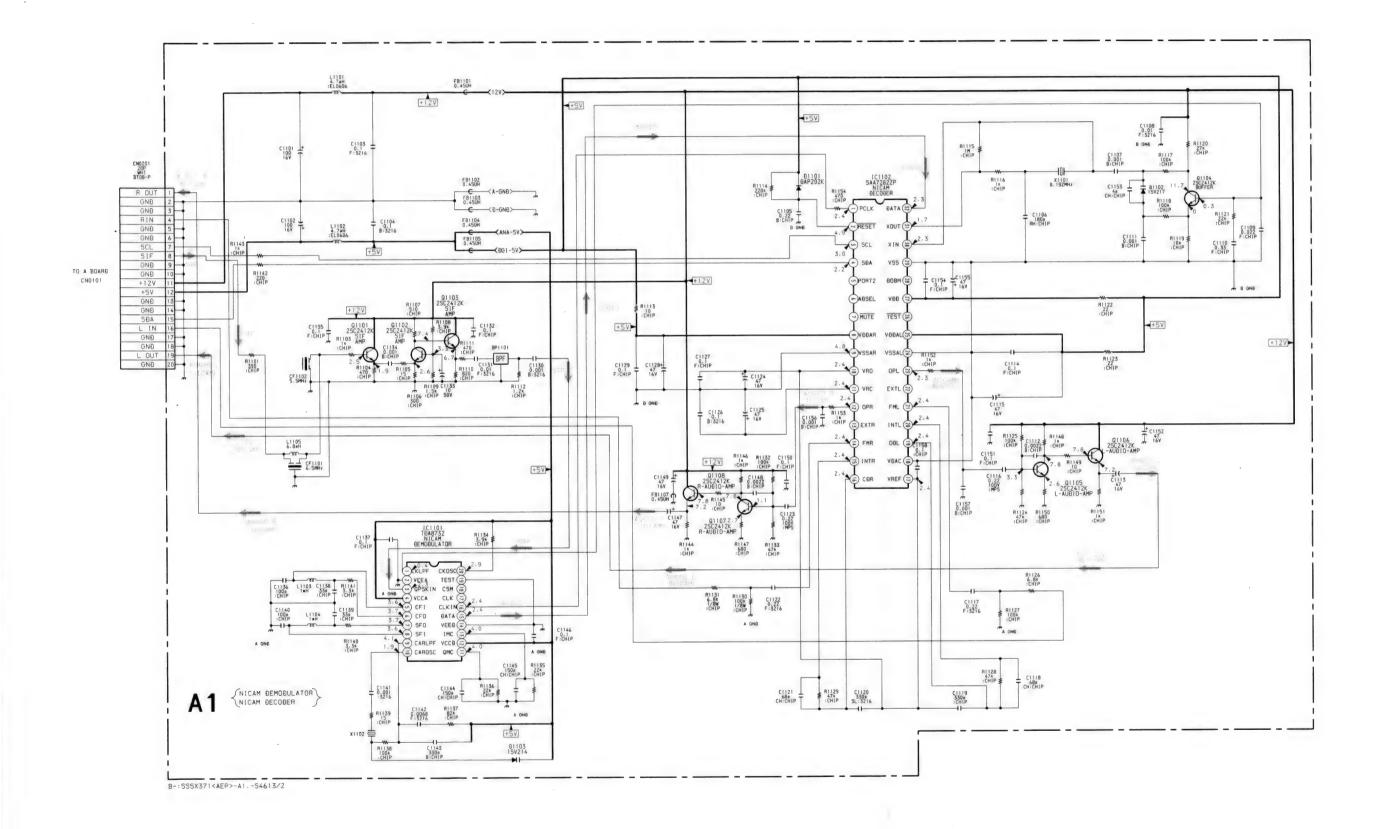






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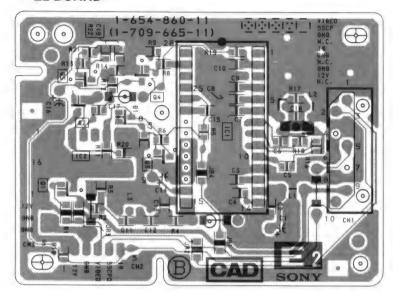




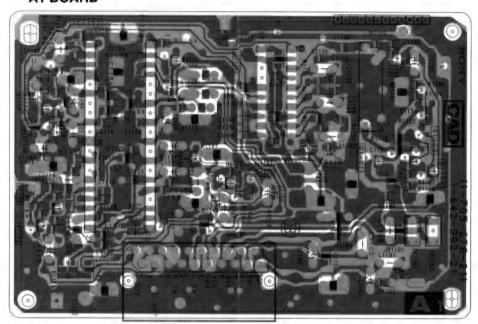




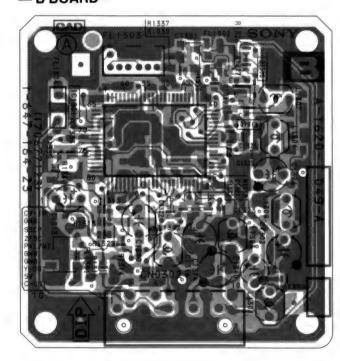
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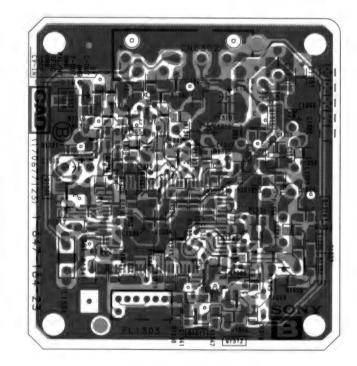


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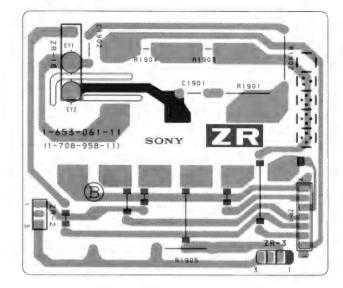
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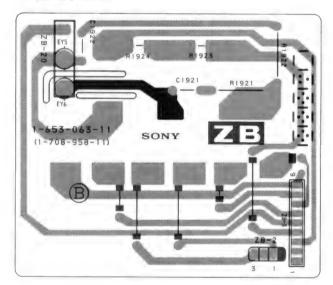


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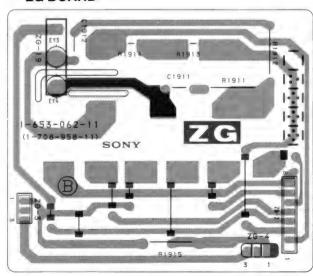
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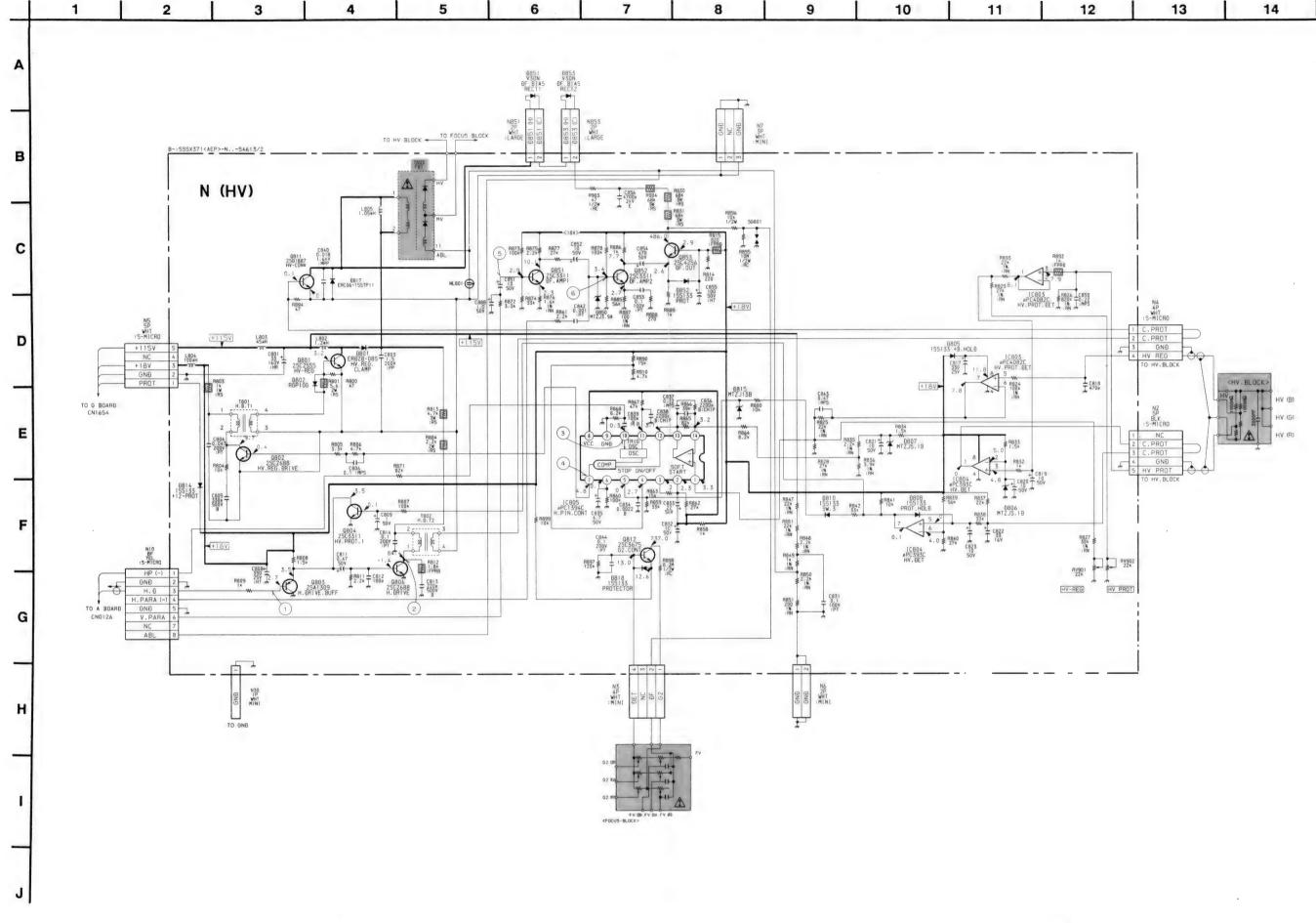


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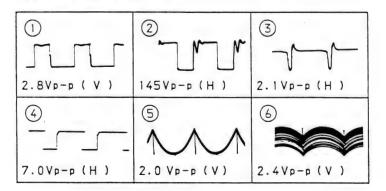




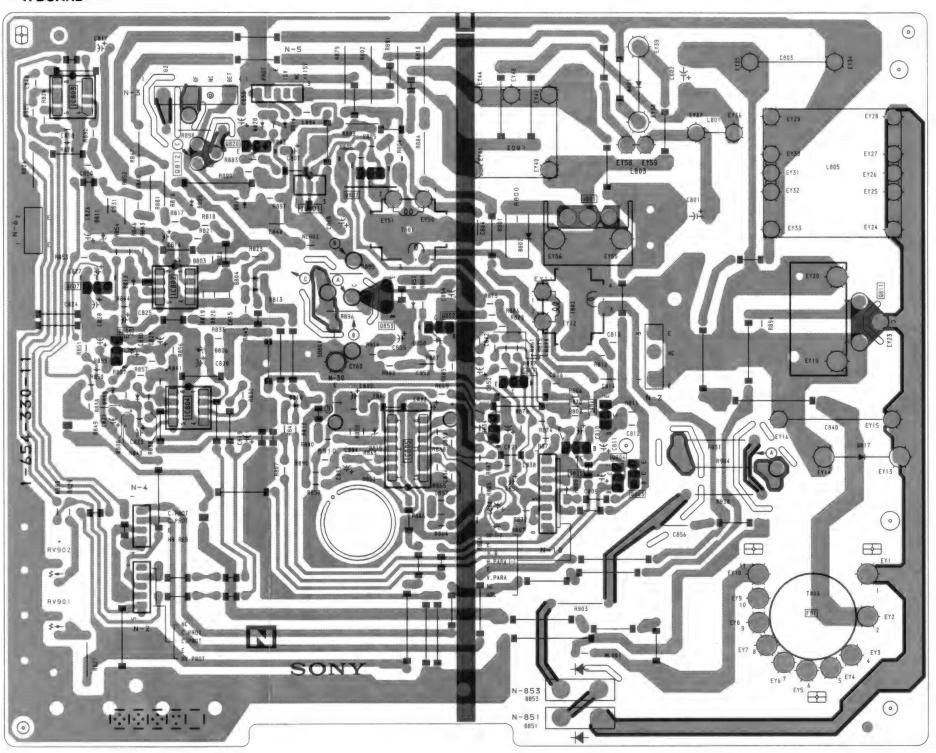
15



WAVEFORMS N BOARD

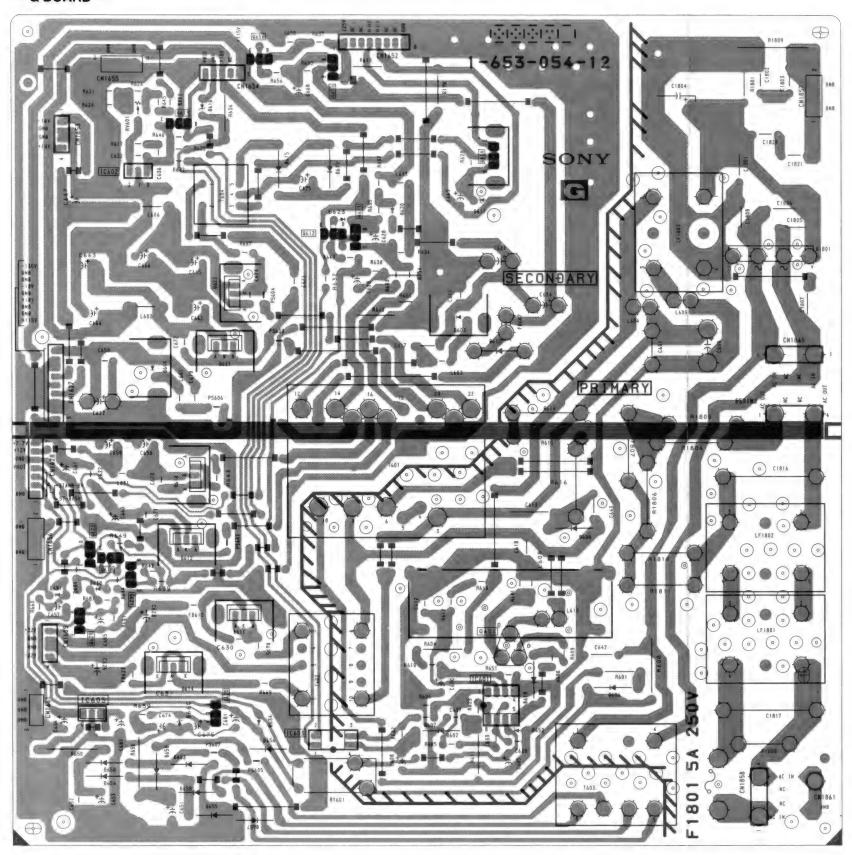


- N BOARD -

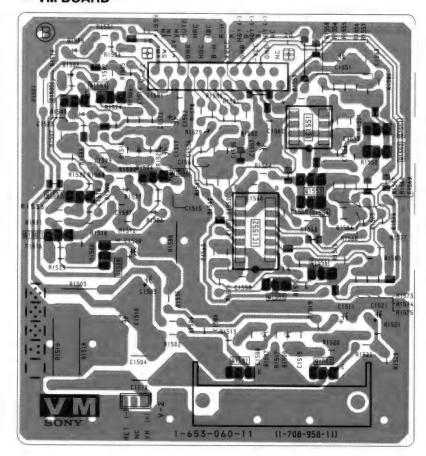




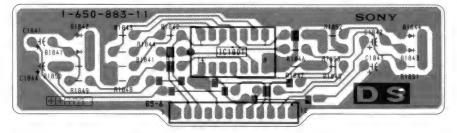
- G BOARD -

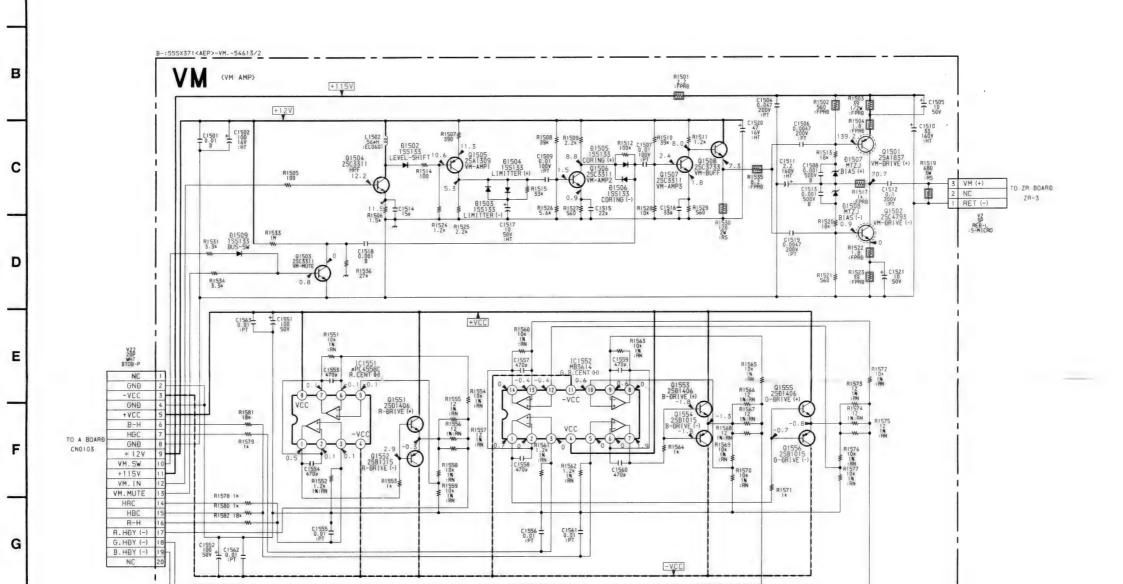


- VM BOARD -



- DS BOARD -

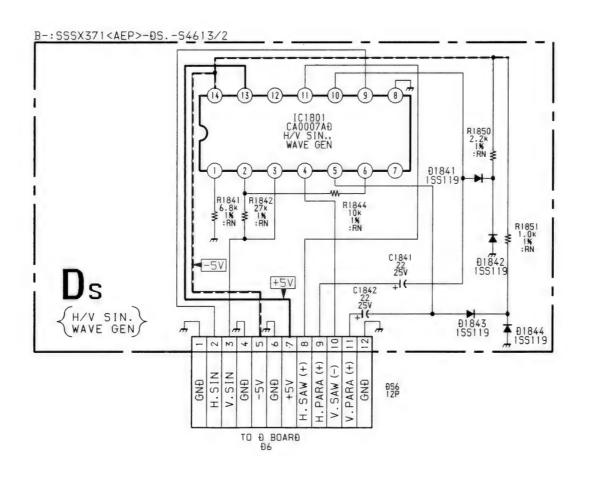


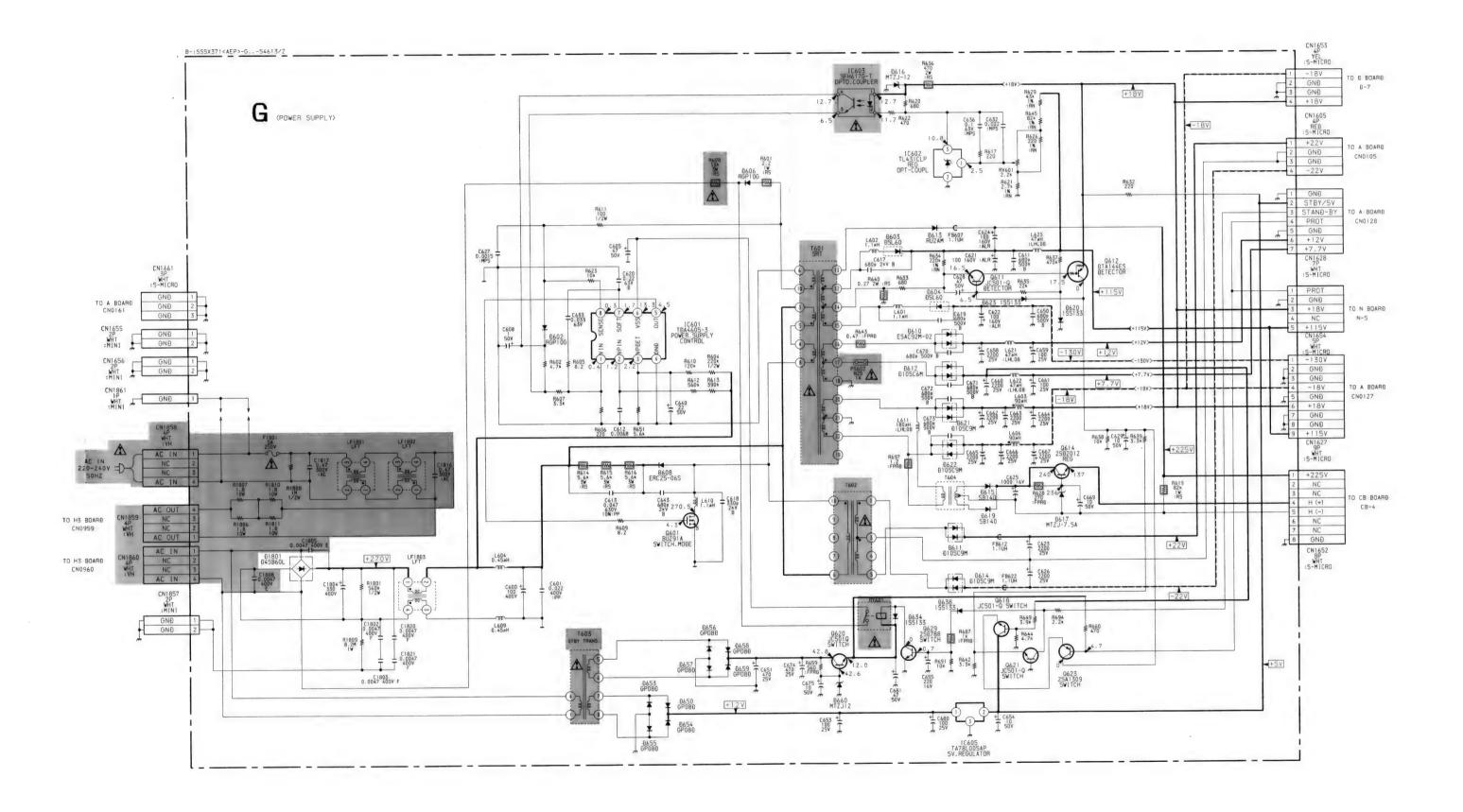


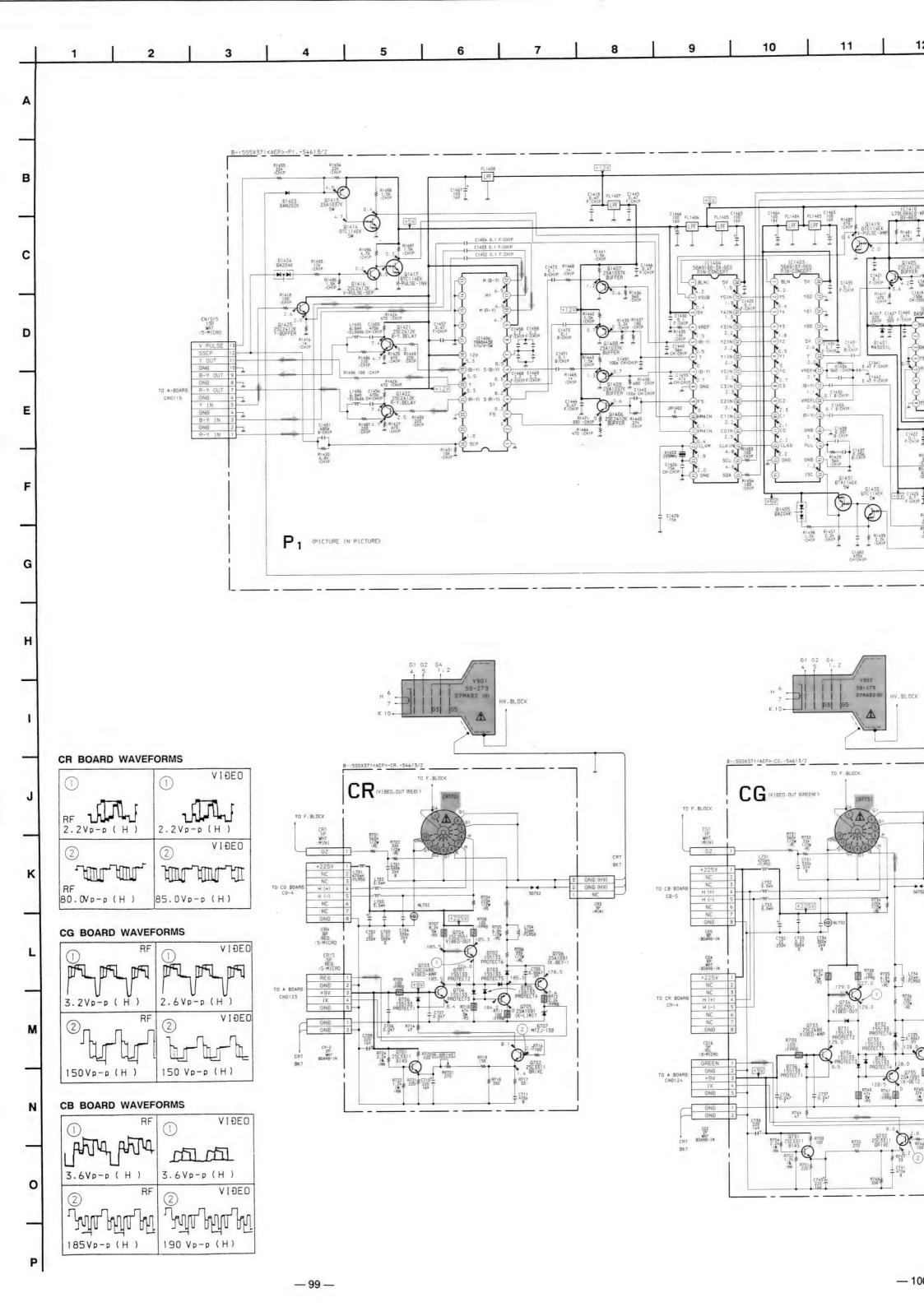
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M

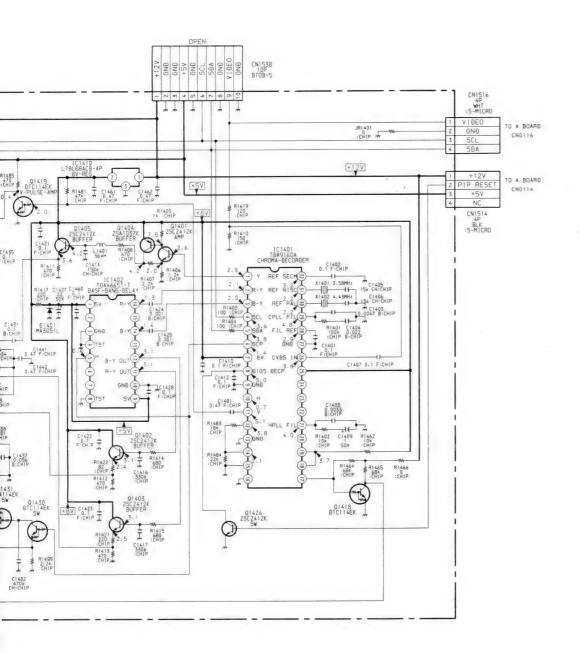
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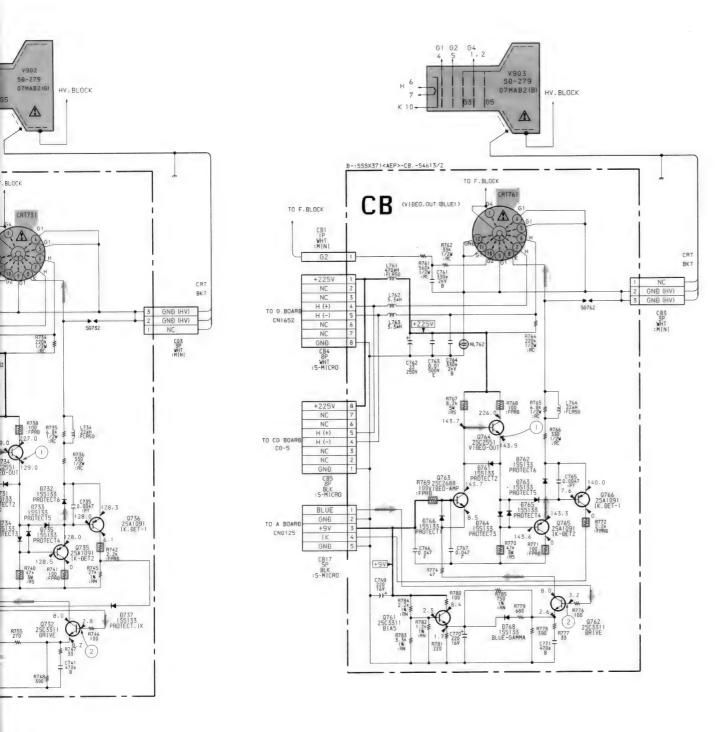






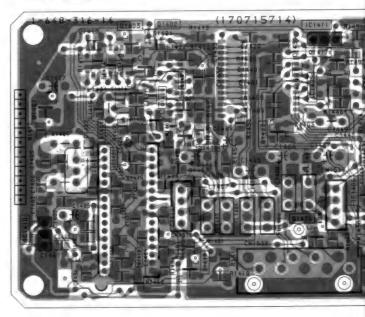


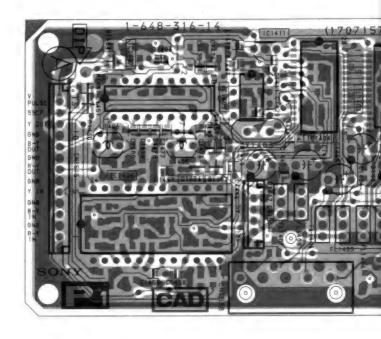




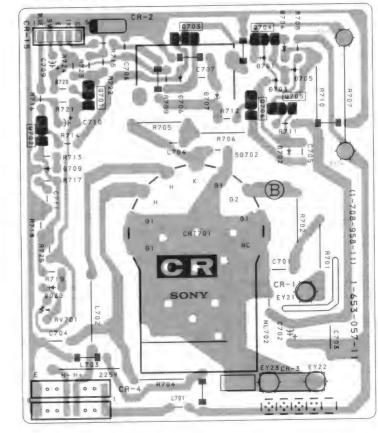


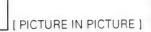
- P1 BOARD -





- CR BOARD -





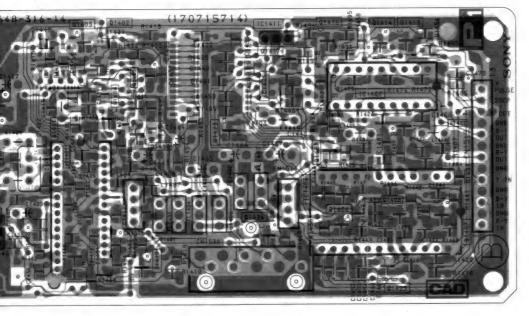


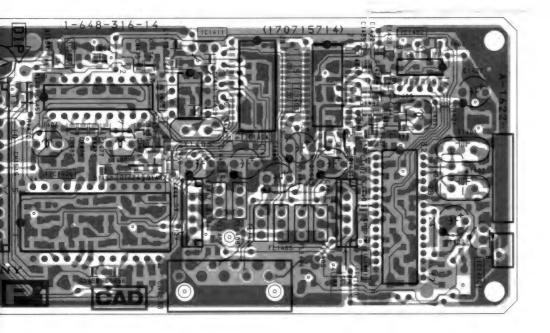






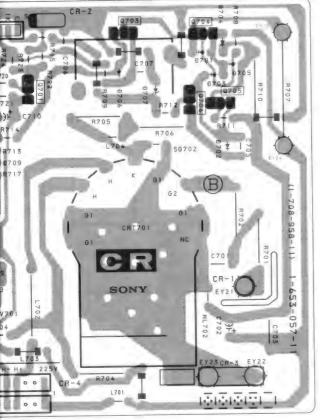
BOARD -



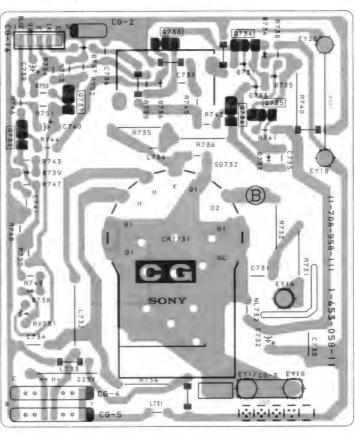


- Pattern from the side which enables seeing.
- : Pattern of the rear side.

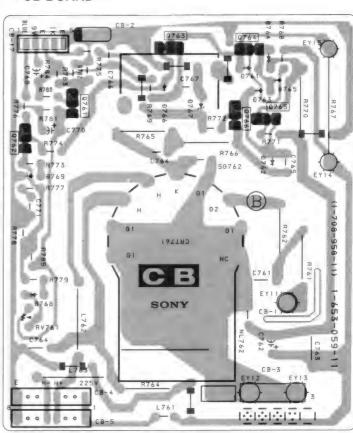
BOARD -

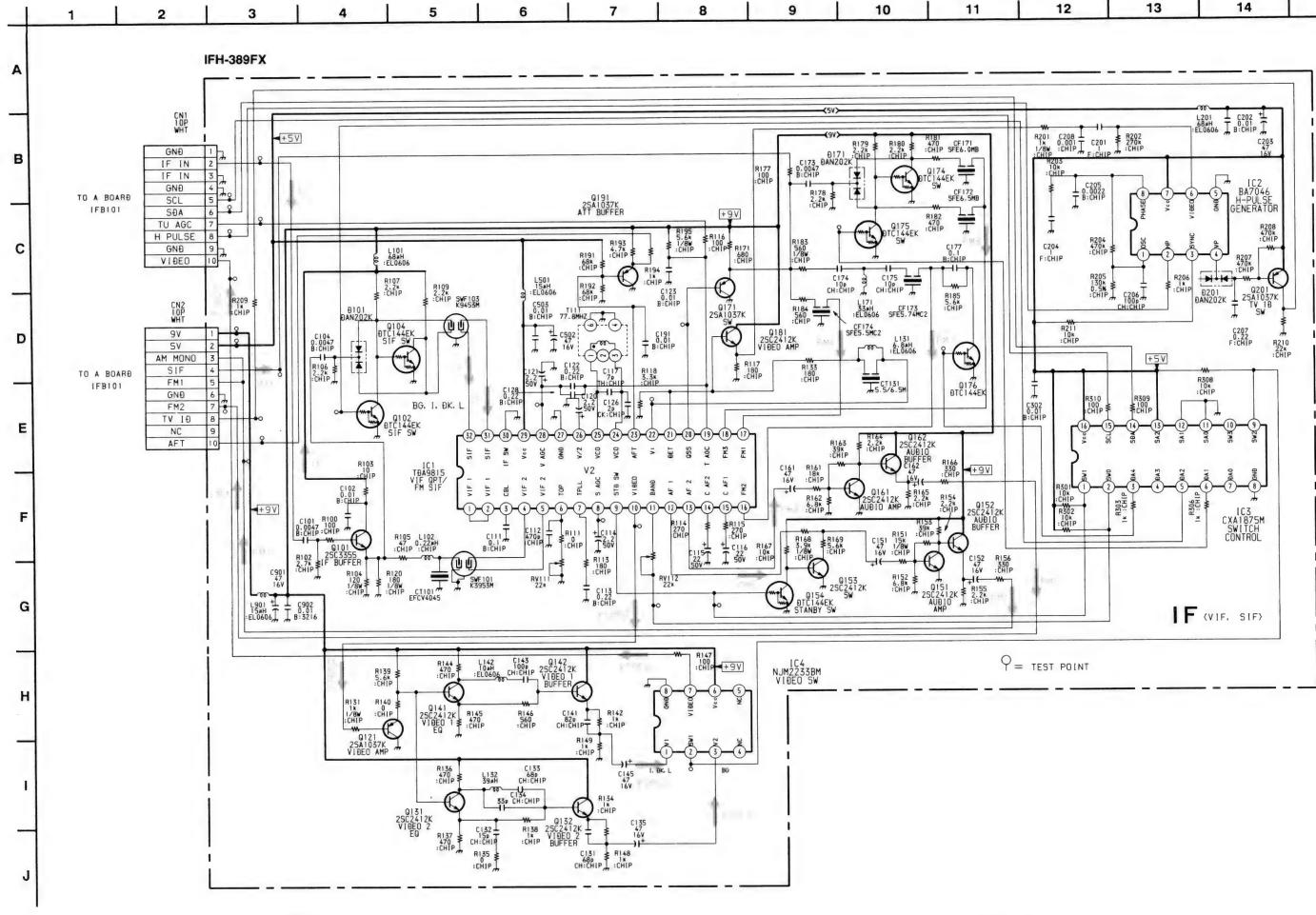


- CG BOARD -

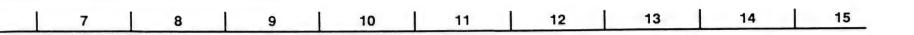


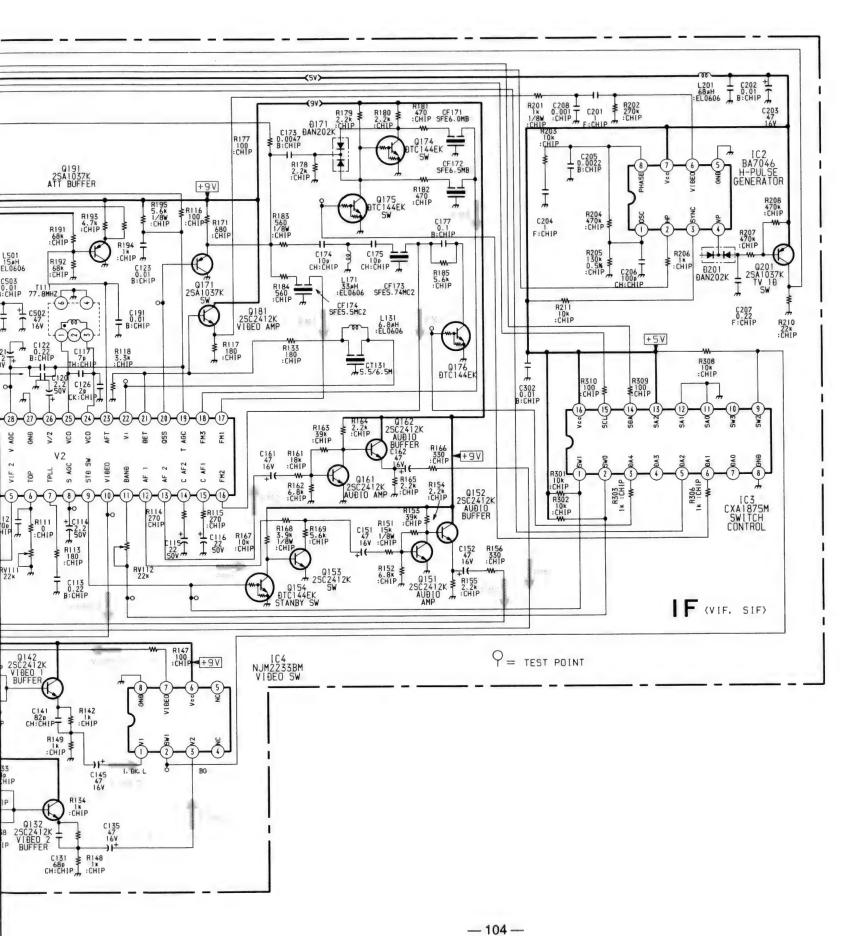
- CB BOARD -





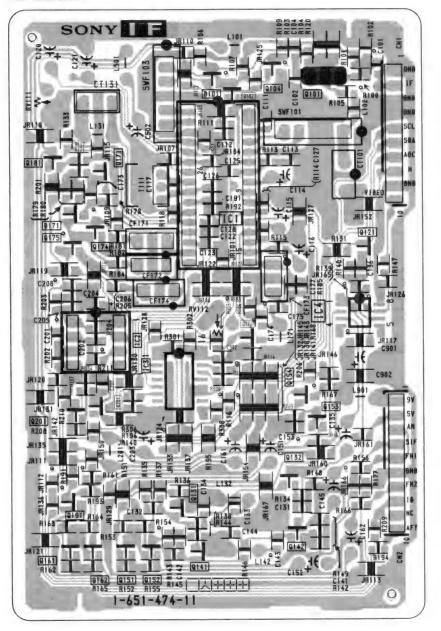
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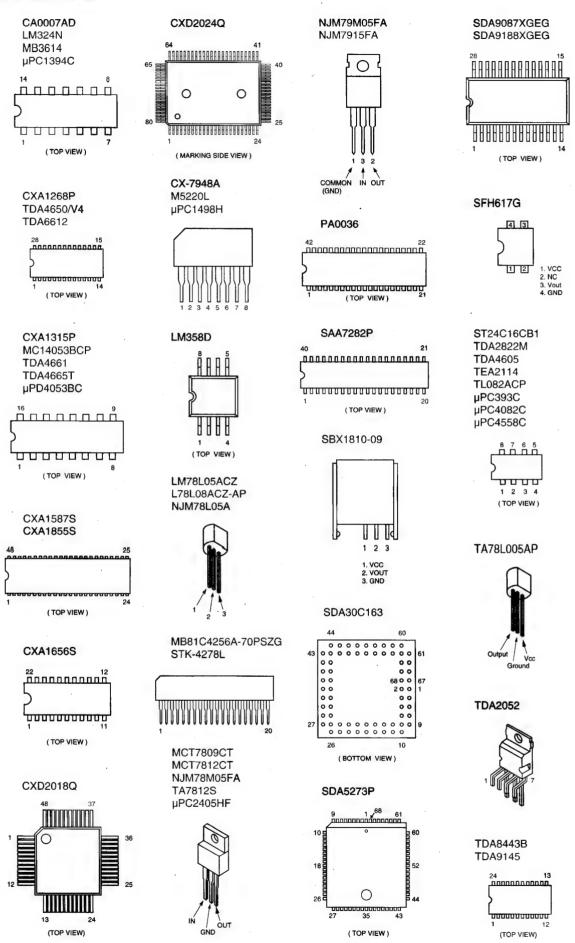




-IF BOARD-



5-4. SEMICONDUCTORS

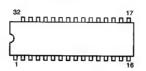






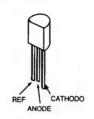
(TOP VIEW)

TDA9160A

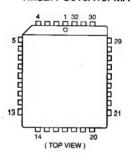


(TOP VIEW)

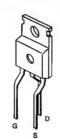
TL431CLP



TMS27PC010A15FMA



BUZ91A-E3155



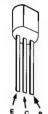
DTA124EK 2SA1037K DTA144EK 2SA1162-G DTC114EK 2SC2412K DTC124EK 2SC1623-L5L6 DTC144EK 2SC2413K



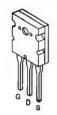
DTA144ES DTC144ES



JC501 2SA1013-O 2SA1091-O 2SA1837 2SC2551-O 2SD788-5



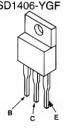
2SA1301-O



2SA1309A-Q 2SA1175-HFE 2SC2785-HFE 2SC3311A-QRS



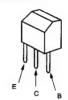
2SB1015 2SB1094-LK 2SC3675 2SD1406-YGF



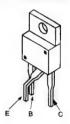
2SB649A-C 2SC2688-LK



2SC3733



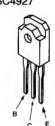
2SC4256CB 2SC4632-CB7



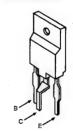
2SC4793



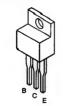
2SC4927



2SD1887-CA



2SD2012



DAN202K



2 3 1

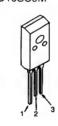
DAP202K



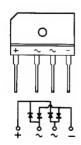
DA204K 1SS226

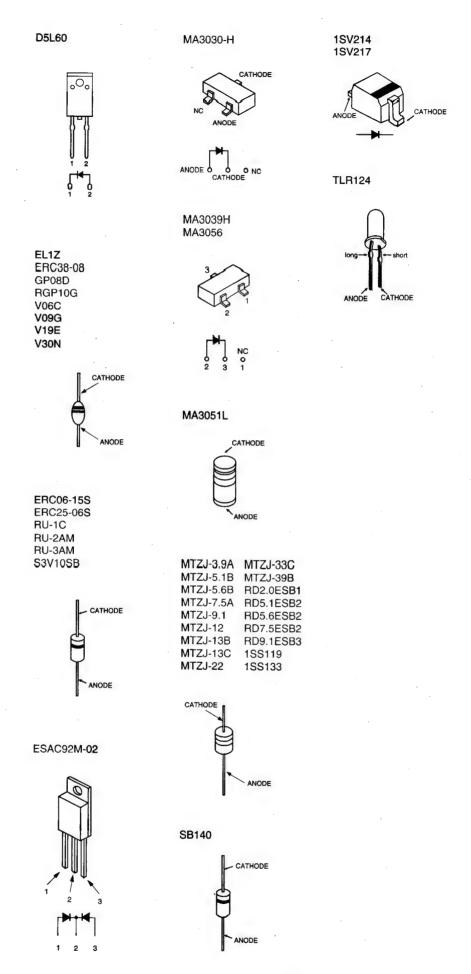


D10SC6M D10SC9M



D4SB60L





SECTION 6

EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they
 are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked \sqrt{t} are critical for safety.

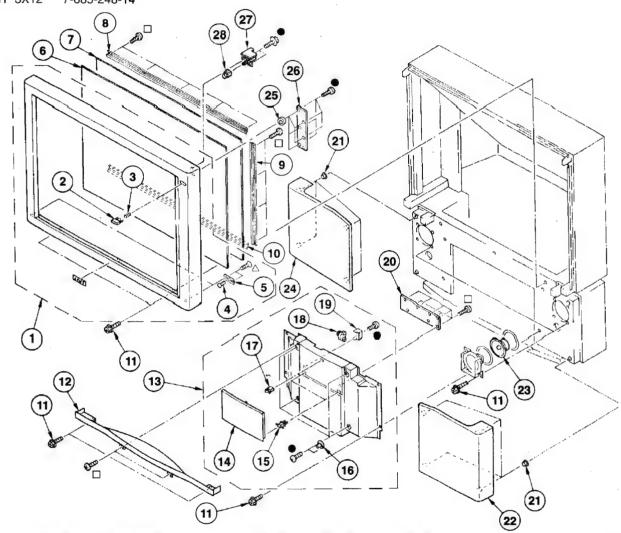
Replace only with the part number specified.

6-1. CONTROL PANEL

●: BVTP 3X12 7-685-648-79

: BVTP 4X12 7-685-661-**79**

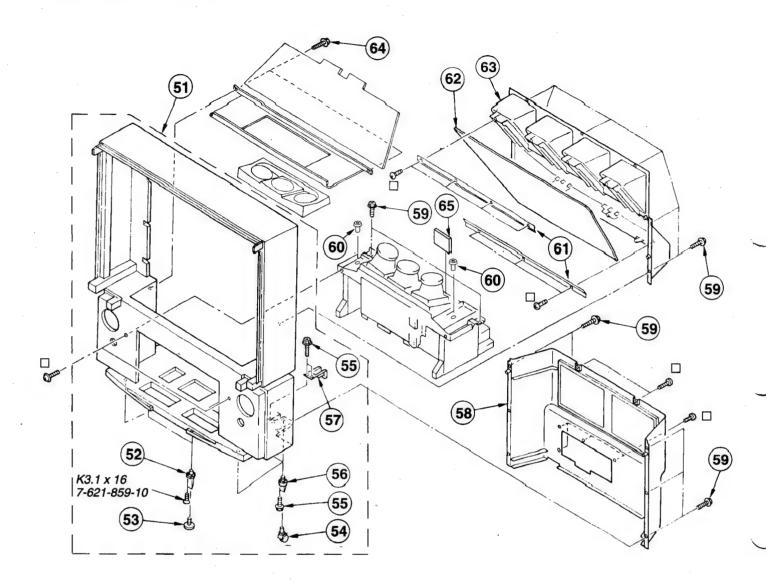
△: KTP 3X12 7-685-248-14



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	X-4030-609-1	FRAME ASSY, SCREEN	2-5	15	3-703-035-12	SHAFT, LID	
2	4-037-635-01	BUTTON, POWER		16	4-843-806-00	STRIKE	
3	3-308-717-00	SPRING, COMPRESSION		17	4-392-036-01	CATCHER, PUSH	
4	4-838-452-00	STRIKE		18	3-721-204-21	DAMPER	
5	4-838-453-00	SUPPORT		19	4-397-047-01	HOLDER, DAMPER	
6	4-037-360-11	PLATE (L), DIFFUSION		20	*1-644-711-11	H2 BOARD	
7	4-037-359-11	PLATE (F), DIFFUSION		21	4-838-438-00	LATCH	
8 .	4-036-091-51	HOLDER (L) SCREEN		22	X-4030-569-1	GRILLE (R) ASSY,	SPEAKER
9	4-036-092-21	HOLDER (S) SCREEN		23	1-504-145-11	SPEAKER (12CM)	
10	4-036-091-21	HOLDER (S) SCREEN		24	X-4030-570-1	GRILLE (L) ASSY,	SPEAKER
11	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD)	25	7-688-000-29	WASHER 10 BLOCK	
12	4-037-629-01	ESCUTCHEON, FRONT, FINAL		26	*1-644-710-11	H1 BOARD	
13	X-4030-605-1	PANEL ASSY, CONTROL	14-19	27	*1-644-712-11	H3 BOARD	
14	4-037-632-01	LID, FINAL CONTROL		28	4-037-636-01	ADAPTOR, BUTTON	

6-2. CABINET

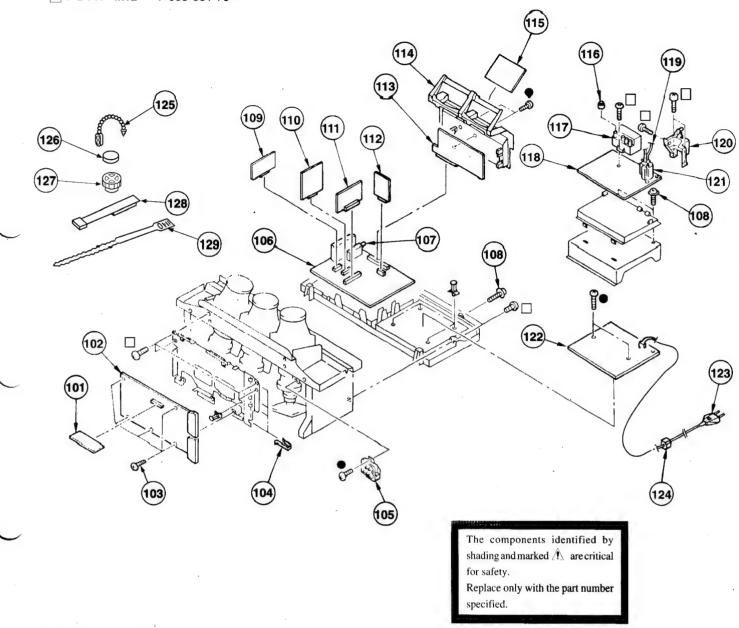
: BVTP 4X12 7-685-661-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4 030-603-1	CABINET ASSY	52-57	58	X-4030-604-3	COVER ASSY, BACK	
52	4-037-473-01	NUT, FITTING		59	4-378-522-31	SCREW, TAPPING, HEXAGON HE	AD
53	4-037-472-01	LEG, ADJUSTABLE		60	4-202-887-01	RIVET ALUMINIUM	
54	4-032-343-11	CASTER		61	4-037-351-01	HOLDER MIRROR	
55	4-378-522-11	SCREW, TAPPING, HEXAGON HEAD		62	4-037-534-01	MIRROR (46), REFLECTION	
56	4-030-850-01	SOCKET, CASTER		63	4-036-462-01	COVER (46"), MIRROR	
57	4-037-639-01	BRACKET, AC CORD		64	4-378-522-21	SCREW, TAPPING, HEXAGON HE	AD
		•		65	A-1642-141-A	E2 BOARD, COMPLETE	-

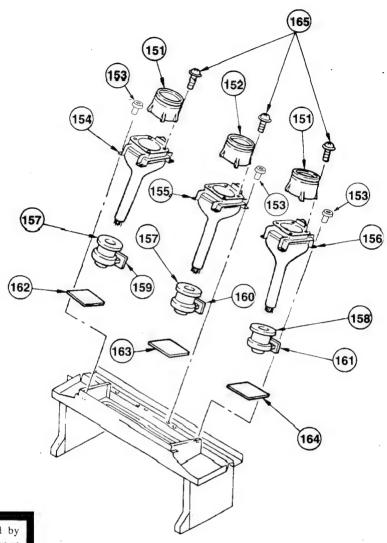
6-3. CHASSIS

●: BVTP 3x12 7-685-648-79
□: BVTP 4x12 7-685-661-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	*1-650-883-12 *A-1640-159-A 4-302-428-03 *4-393-401-01 *1-241-744-11 *A-1632-207-A 1-693-185-11 3-701-810-91 *A-1630-303-A *A-1644-054-A *A-1635-029-A *A-1620-049-A *A-1388-158-A *4-037-620-01 *A-1622-006-A	DS BOARD D BOARD, COMPLETE SCREW (WASHER HEAD) SPRING, TRANSISTOR RESISTOR ASSY (HIGH-VA) A BOARD, COMPLETE TUNER (UV916H) SCREW, TERMINAL A1 BOARD, COMPLETE VM BOARD, COMPLETE M2 BOARD, COMPLETE B BOARD, COMPLETE J BOARD, COMPLETE BRACKET, J P1 BOARD, COMPLETE	+P 3X12)	119 120 121 122	*A-1678-079-A 1-559-865-41 4-034-482-01 1-453-121-11 *A-1637-002-A 1-765-286-11	CAP (Z), RUBBER DC BLOCK, HIGH-VOLTAGE N BOARD, COMPLETE LEAD ASSY, HIGH-VOLTAGE COVER, FBT TRANSFORMER ASSY, FLYBAC G BOARD, COMPLETE CORD, POWER HOLDER, AC CORD CLIP, LEAD WIRE MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK: PERMALLOY ASSY, CORRECTI BAND, BINDING	K (NX-2630B4)

6-4. PICTURE TUBE



The components identified by shading and marked $\hat{\Delta}$ are critical for safety.

Replace only with the part number specified.

REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
151 152 153 154 A	4-034-057-01 4-034-057-11 4-202-887-01 8-736-074-05 8-736-072-05		07MAB2 (R)) 07MAB2 (G))	159 160 161 162 163	*1-653-061-11 *1-653-062-11 *1-653-063-11 *A-1638-049-A *A-1638-051-A	ZR BOARD ZG BOARD ZB BOARD CR BOARD, COMPLETE CG BOARD, COMPLETE	
155 A 156 A 157 A	8-736-073-05 8-451-441-11 8-451-441-21		07MAB2 (B)) (R,G))	164 165	*A-1638-050-A 3-701-810-91	CB BOARD, COMPLETE SCREW, TERMINAL	

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

MF: mF, PF: mmF

MMH: mH, µH: mh

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F: nonflammable

H1	H2	H3	J
	1 12		

PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	ON			REMARK
*1-644-710-11	H1 BOARD		JR082	1-216-296-00	METAL GLAZE	0	5%	1/8W	
			R082	1-249-429-11	CARBON	10K	5%	1/4W	
			R083			4.7K	5%	1/4W	
			R084					1/4W	
4-381-686-01	BRACKET (B), LIGHT GUIDE								
< CON	NECTOR >		R086	1-216-053-00	METAL GLAZE	1.5K	5%	1/10	1
+1 FC4 F00 11	DING GOVERNOR ED			< SWI	TCH >				
*1-564-522-11	PLUG, CONNECTOR 7P		9082	1_571_721_11	פעודיייביט איז כייי	TT			
< DIC	DR >								
220				1-571-731-11	SWITCH, TACT	TT.			
			******	******	******	*****	****	*****	******
0-/13-012-41	DIODE TERIZA			*1-644-712-11	H3 BOARD				
< IC	>			2 012 /12 11	*****				
8-741-810-09	IC SBX1810-09			< CON	NECTOR >				
< RES	SISTOR >								J-77-3
1-249-413-11	CARBON 470 5% 1	1/4W	CN0960 1	*1-580-689-11	PIN, CONNECT	OR (PC	BOARD) 4P	
	,			< SWI	TCH >				
			8095	1-692-293-11	SWITCH PUSH	7AC PO	WERT /	KRV	
*1-644-711-11	H2 BOARD *******							7.00	******
< CAF	ACITOR >			*A-1388-158-A					
1 101 005 00	GEDANTO O COOM	F.0**			********	****			
		50 V		< CAP	ACITOR >				
< CON	NECTOR >		C250	1-163-133-00	CERAMIC CHIP	470PF		5%	50V
					TIT TOTAL	2.2 OME		20%	6.3V
						JOURT			
	PLUG, CONNECTOR 10P		C291	1-101-005-00	CERAMIC	0.022M			50V
*1-564-518-11	PLUG, CONNECTOR 3P		C291 C292	1-101-005-00 1-101-005-00	CERAMIC CERAMIC	0.022M 0.022M	F		50V
*1-564-518-11			C291	1-101-005-00	CERAMIC CERAMIC	0.022M	F	10%	
*1-564-518-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P		C291 C292	1-101-005-00 1-101-005-00	CERAMIC CERAMIC CERAMIC	0.022M 0.022M	f MF	10% 10%	50V
*1-564-518-11 *1-564-519-11 < JAC	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P		C291 C292 C293 C294 C295	1-101-005-00 1-101-005-00 1-102-125-00 1-102-125-00	CERAMIC CERAMIC CERAMIC	0.022M 0.022M 0.0047 0.0047	f MF MF		50V 50V
*1-564-518-11 *1-564-519-11 < JAC 1-565-931-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P CK > TERMINAL BLOCK, S 3P		C291 C292 C293 C294 C295 C296	1-101-005-00 1-101-005-00 1-102-125-00 1-102-125-00 1-163-009-11 1-163-009-11	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CHIP CERAMIC CHIP	0.022M 0.022M 0.0047 0.0047 0.001M 0.001M	f MF MF F F	10% 10% 10%	50V 50V 50V 50V 50V
*1-564-518-11 *1-564-519-11 < JAC	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P CK > TERMINAL BLOCK, S 3P		C291 C292 C293 C294 C295 C296 C901	1-101-005-00 1-101-005-00 1-102-125-00 1-102-125-00 1-163-009-11 1-163-009-11 1-163-017-00	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CHIP CERAMIC CHIP	0.022M 0.022M 0.0047I 0.0047I 0.001M 0.001M 0.0047I	F MF MF F F MF	10% 10% 10% 10%	50V 50V 50V 50V 50V 50V
*1-564-518-11 *1-564-519-11 < JAC 1-565-931-11 1-691-293-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P CK > TERMINAL BLOCK, S 3P JACK		C291 C292 C293 C294 C295 C296	1-101-005-00 1-101-005-00 1-102-125-00 1-102-125-00 1-163-009-11 1-163-009-11	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CHIP CERAMIC CHIP	0.022M 0.022M 0.0047I 0.0047I 0.001M 0.001M 0.0047I	F MF MF F F MF	10% 10% 10%	50V 50V 50V 50V 50V
*1-564-518-11 *1-564-519-11 < JAC 1-565-931-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P CK > TERMINAL BLOCK, S 3P JACK		C291 C292 C293 C294 C295 C296 C901	1-101-005-00 1-101-005-00 1-102-125-00 1-102-125-00 1-163-009-11 1-163-017-00 1-163-017-00	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.022M 0.022M 0.00471 0.00471 0.001M 0.001M 0.00471	F MF MF F F MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V 50V
*1-564-518-11 *1-564-519-11 < JAC 1-565-931-11 1-691-293-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P CK > TERMINAL BLOCK, S 3P JACK LL >		C291 C292 C293 C294 C295 C296 C2901 C902	1-101-005-00 1-101-005-00 1-102-125-00 1-102-125-00 1-163-009-11 1-163-017-00 1-163-017-00 1-163-133-00	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.022M 0.022M 0.00471 0.00471 0.001M 0.001M 0.00471 0.00471	F MF MF F F MF	10% 10% 10% 10%	50V 50V 50V 50V 50V 50V
*1-564-518-11 *1-564-519-11 < JAC 1-565-931-11 1-691-293-11 < COI	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P CK > TERMINAL BLOCK, S 3P JACK LL > INDUCTOR 10UH		C291 C292 C293 C294 C295 C296 C901 C902	1-101-005-00 1-101-005-00 1-102-125-00 1-102-125-00 1-163-009-11 1-163-017-00 1-163-017-00 1-163-133-00	CERAMIC CERAMIC CERAMIC CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.022M 0.022M 0.00471 0.00471 0.001M 0.001M 0.00471 0.00471	F MF F F MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V 50V 50V
*1-564-518-11 *1-564-519-11 < JAC 1-565-931-11 1-691-293-11 < COI 1-408-409-00 1-408-409-00	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P CK > TERMINAL BLOCK, S 3P JACK LL > INDUCTOR 10UH INDUCTOR 10UH		C291 C292 C293 C294 C295 C296 C901 C902 C904 C905	1-101-005-00 1-101-005-00 1-102-125-00 1-102-125-00 1-163-009-11 1-163-017-00 1-163-017-00 1-163-133-00 1-163-133-00	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CHIP	0.022M 0.022M 0.0047i 0.0047i 0.001M 0.0047i 0.0047i 470PF 470PF 0.01MF	F MF F F MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V 50V 50V
*1-564-518-11 *1-564-519-11 < JAC 1-565-931-11 1-691-293-11 < COI 1-408-409-00 1-408-409-00	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P CK > TERMINAL BLOCK, S 3P JACK LL > INDUCTOR 10UH		C291 C292 C293 C294 C295 C296 C901 C902 C904 C905 C906	1-101-005-00 1-101-005-00 1-102-125-00 1-102-125-00 1-163-009-11 1-163-017-00 1-163-017-00 1-163-133-00 1-163-133-00 1-101-004-00	CERAMIC CERAMIC CERAMIC CERAMIC CHIP	0.022M 0.022M 0.0047i 0.001M 0.001M 0.0047i 0.0047i 470PF 470PF 0.01MF 470PF	F MF F F MF	10% 10% 10% 10% 10% 5%	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V
	4-033-777-01 *4-374-987-01 4-381-686-01	4-033-777-01 HOLDER, LED *4-374-987-01 GUIDE, LIGHT 4-381-686-01 BRACKET (B), LIGHT GUIDE < CONNECTOR > *1-564-522-11 PLUG, CONNECTOR 7P < DIODE > 8-719-812-41 DIODE TLR124 8-719-812-41 DIODE TLR124 8-719-812-41 DIODE TLR124 < IC > 8-741-810-09 IC SBX1810-09 < RESISTOR > 1-249-413-11 CARBON 470 5% ********** *1-644-711-11 H2 BOARD ********** *CAPACITOR > 1-101-005-00 CERAMIC 0.022MF	######################################	######################################	#4-033-777-01 HOLDER, LED #4-374-987-01 GUIDE, LIGHT #4-381-686-01 BRACKET (B), LIGHT GUIDE CONNECTOR > *1-564-522-11 PLUG, CONNECTOR 7P ODIODE > *082 1-249-429-11 R083 1-249-425-11 R084 1-249-421-11 R085 1-216-053-00 R086 1-216-053-00 R086 1-216-053-00 R086 1-216-053-10 R086 1	#4-033-777-01 HOLDER, LED #4-374-987-01 GUIDE, LIGHT #4-381-686-01 BRACKET (B), LIGHT GUIDE CONNECTOR > *1-564-522-11 PLUG, CONNECTOR 7P DIODE > *6-719-812-41 DIODE TLR124 8-719-812-41 DIODE TLR124 8-719-812-41 DIODE TLR124 CIC > *8-741-810-09 IC SEXI810-09 CRESISTOR > *1-644-711-11 H2 BOARD *1-644-711-11 H2 BOARD *1-644-711-11 H2 BOARD *1-101-005-00 CERAMIC 0.022MF 50V 1-101-005-00 CERAMIC 0.022MF 50V CCONNECTOR > *1-643-713-13 CARBON R082 1-249-429-11 CARBON R085 1-216-053-00 METAL GLAZE R086	#4-033-777-01 HOLDER, LED #4-374-987-01 GUIDE, LIGHT #4-374-987-01 GUIDE, LIGHT GUIDE #5-381-686-01 BRACKET (B), LIGHT GUIDE #5-564-522-11 PLUG, CONNECTOR 7P #5-564-522-11 PLUG, CONNECTOR 7P #5-719-812-41 DIODE TLR124 #5-644-712-11 H3 BOARD	# 1-644-711-11 H2 BOARD H2 BO	### 4-033-777-01 HOLDER, LED #4-374-987-01 GUIDE, LIGHT #-381-686-01 BRACKET (B), LIGHT GUIDE #**CONNECTOR > #**CONNECTOR > #**CONNECTOR > #**CONNECTOR 7P ***CONNECTOR 7P

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C910 C911 C912 C913	1-163-017-00 1-163-133-00	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 470PF CERAMIC CHIP 470PF	10% 10% 5% 5%	50V 50V 50V 50V	D922 D923 D924 D925 D926	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A	
C914 C915 C916 C917 C918	1-163-121-00 1-163-017-00 1-163-017-00	CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 470PF	5% 5% 10% 10% 5%	50V 50V 50V 50V 50V	D927 D928	8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A	
C919 C920 C921 C922 C923	1-163-017-00 1-163-017-00 1-124-477-11	CERAMIC CHIP 470PF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF ELECT 47MF CERAMIC CHIP 1MF	5% 10% 10% 20%	50V 50V 50V 16V	J291 J901 J903 J904	1-695-296-11 1-695-549-11	TERMINAL BOARD, INPU TERMINAL BLOCK, S SOCKET, PIN 21P TERMINAL BLOCK, S	T/OUTP UT
C924 C925 C926 C927 C928	1-124-477-11 1-124-477-11	ELECT 47MF ELECT 47MF CERAMIC CHIP 1MF BLECT 47MF	20% 20% 20% 20%	16V 16V 16V 16V	J905 J906 J907	1-695-293-11 1-695-296-11 1-695-549-11	SOCKET, PIN 21P SOCKET 21P; J905 TERMINAL BLOCK, S SOCKET, PIN 21P SOCKET 21P; J907	
						< COI	L >	
C929 C930 C931 C932 C933		ELECT 47MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	20% 20% 20%	16V 16V 16V 16V 16V	L291 L292 L294 L295	1-402-711-11 1-402-711-11	INDUCTOR, WIDEBAND INDUCTOR, WIDEBAND INDUCTOR, WIDEBAND INDUCTOR, WIDEBAND	
C934 C935 C936 C937 C938		ELECT 47MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	20% 20%	16V 16V 16V 16V 16V	Q281 Q282 Q283	8-729-920-74 8-729-920-74	NSISTOR > TRANSISTOR 2SC2412K- TRANSISTOR 2SC2412K- TRANSISTOR 2SA1162-G	QR
	< CON	NECTOR >				< RES	HISTOR >	
	*1-564-522-11 *1-564-519-11	CONNECTOR, BOARD TO BOA PLUG, CONNECTOR 7P PLUG, CONNECTOR 4P	ARD 50P		JR201 JR901 JR905 JR909	1-216-296-00 1-216-295-91 1-216-296-00 1-216-296-00	METAL GLAZE 0 METAL GLAZE 0	5% 1/8W 5% 1/10W 5% 1/8W 5% 1/8W
	< DIC	DE >			JR910	1-216-296-00	METAL GLAZE 0	5% 1/8W
D201 D202 D203 D204 D901	8-719-924-11	DIODE MTZJ-22 DIODE MTZJ-22 DIODE MTZJ-22 DIODE MTZJ-22 DIODE MTZJ-9.1A			JR911 JR915 JR917 JR918 JR921	1-216-296-00 1-216-295-91 1-216-296-00 1-216-295-91 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 1/8W 5% 1/10W 5% 1/8W 5% 1/10W 5% 1/10W
D902 D903 D904 D905 D906	8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR923 JR924 JR926 JR927 JR928	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 1/8W 5% 1/8W 5% 1/8W 5% 1/8W 5% 1/8W
D907 D908 D909 D910 D911	8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR935 JR939 JR940 JR942 JR944	1-216-296-00 1-216-295-91 1-216-295-91 1-216-171-00 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 75	5% 1/8W 5% 1/10W 5% 1/10W 5% 1/8W 5% 1/10W
D912 D913 D914 D915 D916	8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR946 JR947 JR952 JR954	1-216-296-00 1-216-295-91 1-216-296-00 1-216-295-91	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 1/8W 5% 1/10W 5% 1/8W 5% 1/10W
D917 D918 D919 D920 D921	8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			R283 R284 R286 R287 R288	1-216-073-00 1-216-073-00 1-216-097-00 1-216-216-00 1-216-216-00	METAL GLAZE 10K METAL GLAZE 100K METAL GLAZE 5.6K	5% 1/8W

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REF.NO.	PART NO.	DESCRIPTIO	N_		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
R289 R291 R292 R901 R902	1-216-055-00 1-249-413-11 1-249-413-11 1-216-039-00 1-216-039-00	METAL GLAZE CARBON CARBON METAL GLAZE METAL GLAZE	1.8K 470 470 390 390	5% 5% 5% 5%	1/10W 1/4W 1/4W 1/10W 1/10W	R961 R965 R966 R967 R990	1-216-071-00 1-216-178-00 1-216-178-00 1-216-178-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 5% 150 5% 150 5% 150 5% 1.5K 5%	1/10W 1/8W 1/8W 1/8W 1/10W	
R903 R904 R905 R906 R907	1-216-113-00 1-216-113-00 1-216-188-00 1-216-039-00 1-216-178-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 470K 390 390 150	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/8W	R991 R992 R993 R994 R995	1-216-053-00 1-216-053-00 1-216-053-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R908 R909 R910 R911 R913	1-216-178-00 1-216-113-00 1-216-113-00 1-216-022-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150 470K 470K 75 3.9K	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	R996 R997 R998 R999	1-216-202-00 1-216-053-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5%	1/8W 1/10W 1/10W 1/10W	
R914 R915 R916 R917 R919	1-216-063-00 1-216-113-00 1-216-113-00 1-216-022-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 470K 470K 75 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	*****	*A-1620-049-A	B BOARD, COME	LETE	*****	*****
R920 R921 R922 R923 R924	1-216-063-00 1-216-022-00 1-216-222-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 75 10K 390 390	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W	C1301 C1302 C1303 C1304 C1305	1-164-232-11 1-126-101-11 1-164-232-11 1-164-232-11 1-163-105-00	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100MF 0.01MF 0.01MF	10% 20% 10% 10% 5%	50V 16V 50V 50V 50V
R925 R926 R927 R928 R929	1-216-089-00 1-216-039-00 1-216-039-00 1-216-089-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 390 390 47K 3.9K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C1306 C1307 C1308 C1309 C1310	1-163-109-00 1-164-232-11 1-163-101-00 1-163-101-00 1-126-101-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.01MF 22PF	5% 10% 5% 5% 20%	50V 50V 50V 50V 16V
R930 R931 R932 R933 R934	1-216-113-00 1-216-212-00 1-216-113-00 1-216-073-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 3.9K 470K 10K 3.9K	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W	C1311 C1312 C1313 C1314 C1315	1-163-038-91 1-163-133-00 1-104-792-51 1-126-101-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT CERAMIC CHIP	470PF 33MF 100MF	5% 20% 20% 10%	25V 50V 16V 16V 50V
R935 R937 R938 R939 R940	1-216-022-00 1-216-113-00 1-216-039-00 1-216-188-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 470K 390 390 3.9K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W	C1316 C1317 C1319 C1320 C1321	1-126-101-11 1-164-232-11 1-164-232-11 1-163-141-00 1-164-232-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.001MF	20% 10% 10% 5% 10%	16V 50V 50V 50V 50V
R941 R942 R943 R944 R945	1-216-113-00 1-216-188-00 1-216-089-00 1-216-188-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 390 47K 390 47K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/8W 1/10W	C1322 C1323 C1324 C1325 C1326		CERAMIC CHIP	0.01MF 100MF 0.01MF	10% 10% 20% 10% 10%	50V 50V 16V 50V 50V
R946 R947 R948 R949 R950	1-216-022-00 1-216-178-00 1-216-073-00 1-216-113-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	75 150 10K 470K 3.9K		1/10W 1/8W 1/10W 1/10W 1/10W	C1327 C1328 C1329 C1330 C1331	1-164-232-11 1-164-232-11 1-163-038-91 1-163-038-91 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.1MF 0.1MF	10% 10% 10%	50V 50V 25V 25V 50V
R951 R952 R953 R954 R955	1-216-063-00 1-216-113-00 1-216-188-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 470K 390 390 390		1/10W 1/10W 1/8W 1/10W 1/10W	C1332 C1333 C1336 C1337 C1338		CERAMIC CHIP	0.01MF 82PF 180PF	10% 10% 5% 5% 0.5PF	50V 50V 50V 50V
R956 R957 R958 R959 R960	1-216-089-00 1-216-039-00 1-216-089-00 1-216-071-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 390 47K 8.2K 8.2K		1/10W 1/10W 1/10W 1/10W 1/10W	C1339 C1340 C1341	1-163-227-11 1-124-477-11 1-164-232-11		47MF	0.5PF 20% 10%	50V 16V 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	N		REMARK
		NECTOR >		R1321		METAL GLAZE	1K 5%		
CN0302	1-573-299-21	CONNECTOR, BOARD TO BOARD 10)P	R1322 R1324	1-216-025-00 1-216-055-00		100 5% 1.8K 5%	1/10 1/10	
	< DIC	CONNECTOR, BOARD TO BOARD 10 DDE > DIODE DAN202K CAPSULATED FILTER > FILTER, LOW PASS FILTER, LOW PASS FILTER, BAND PASS > IC CXD2024Q UL > INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 56UH ANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R1325 R1326	1-216-043-91 1-216-067-00	METAL GLAZE	560 5% 5.6K 5%	1/10	W
D1301	0_710_014_42	DIODE DANGOOF		D1207					
D1301	0-113-314-43	DIODE DAMZUZK		R1328	1-216-049-00 1-216-049-00	METAL GLAZE	1K 5% 1K 5%	1/10 1/10	A
	< ENC	APSULATED FILTER >		R1329 R1330	1-216-049-00 1-216-055-00		1K 5% 1.8K 5%	1/10 1/10	
FL1301	1-239-550-41	FILTER, LOW PASS		R1332	1-208-784-11		1.2K 0.5	0% 1/10	W.
FL1302 FL1303	1-239-550-41	FILTER, LOW PASS FILTER, BAND PASS		R1333	1-216-666-11	METAL CHIP	4.3K 0.5	0% 1/10	W
,	< IC	>		R1334 R1335	1-208-767-11 1-216-637-11		240 0.5 270 0.5	0% 1/10	N N
T01201	0 750 257 00	TO 0000000		R1336	1-216-657-11	METAL CHIP	1.8K 0.5	0% 1/101	W
IC1301	8-/34-33/-88	IC CXD2024Q		R1337	1-216-663-11	METAL CHIP	3.3K 0.5	0% 1/10	N
	< COI	IL >		R1338 R1339	1-216-657-11 1-216-295-91		1.8K 0.5 0 5%		
L1301	1-408-405-00	INDUCTOR 4.7UH		R1342	1-216-295-91	METAL GLAZE	0 5%	1/10	W
L1302 L1303	1-408-403-00	INDUCTOR 3.3UH INDUCTOR 4.7UH		R1344 R1345	1-216-059-00 1-216-045-00		2.7K 5% 680 5%	1/101 1/101	
L1304	1-408-405-00	INDUCTOR 4.7UH		MIJIJ					
L1307	1-408-421-00	INDUCTOR 1000H		R1346 R1347	1-216-039-00 1-216-055-00		390 5% 1.8K 5%	1/101 1/101	
L1308	1-408-418-00	INDUCTOR 56UH		R1349	1-216-041-00	METAL GLAZE	470 5%	1/10	W
	< TRA	INSISTOR >		R1352 R1353	1-216-295-91 1-216-037-00		0 5% 330 5%	1/10 1/10	
Q1301	8-729-216-22	TRANSISTOR 2SA1162-G		R1354	1-216-031-00	METAL GLAZE	180 5%	1/10	W
Q1302	8-729-216-22	TRANSISTOR 2SA1162-G		R1355	1-216-043-91	METAL GLAZE	560 5%	1/10	W
Q1303 Q1304	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-OR		R1356 R1357	1-216-043-91 1-216-033-00	METAL GLAZE	560 5% 220 5%	1/101 1/101	W W
Q1305	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1358	1-216-033-00	METAL GLAZE	220 5%	1/10	W
Q1306	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1359	1-216-033-00	METAL GLAZE	220 5%	1/10	W
Q1307 Q1308	8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R1360	1-249-417-11	CARBON	1K 5%	1/4W	
Q1309	8-729-920-74	TRANSISTOR 2SC2412K-QR		******	**********	***********	*******	******	******
Q1311	0-129-920-14	TRANSISTOR 2SC2412K-QK			*A-1622-006-A	P1 BOARD, COM	IPLETE		
Q1312 Q1313	8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-OR				********	****		
Q1314 Q1315	8-729-216-22	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR SISTOR > METAL GLAZE 1.5K 5% 1			< CAP	ACITOR >			
QIJIJ	0-123-320-14	TRANSISTOR ZSCZ4IZA-QR		C1401	1-163-038-91	CERAMIC CHIP	0.1MF		25V
	< RES	SISTOR >		C1402 C1403	1-163-038-91	CERAMIC CHIP	0.1MF	1 0%	25V
R1301	1-216-053-00	METAL GLAZE 1.5K 5% 1,	/10W	C1404	1-163-037-11	CERAMIC CHIP	0.0047MF	10%	25 V
R1302 R1303	1-216-059-00 1-216-043-91	METAL GLAZE 2./A 36 1/	/10W /10W	C1405	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
R1304	1-216-043-91	METAL GLAZE 560 5% 1/	/10W	C1406		CERAMIC CHIP		5%	50 V
R1305	1-216-067-00	METAL GLAZE 5.6K 5% 1,	/10W	C1407 C1408	1-163-038-91	CERAMIC CHIP CERAMIC CHIP	0.1MF	10%	25V 50V
R1306	1-216-073-00		/10W	C1409	1-124-903-11	ELECT	1MF	20%	50V
R1307 R1308	1-216-069-00 1-216-069-00	· ·	/10W /10W	C1410	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1309	1-216-055-00	METAL GLAZE 1.8K 5% 1,	/10W	C1412	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1310	1-216-295-91	METAL GLAZE 0 5% 1,	/10W	C1414 C1416		CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V
R1311	1-216-073-00	METAL GLAZE 10K 5% 1,	/10W	C1417		CERAMIC CHIP		5%	50V
R1312 R1313	1-216-057-00 1-216-089-00		/10W /10W	C1419		CERAMIC CHIP			25V
R1314	1-216-065-00	METAL GLAZE 4.7K 5% 1/	/10W	.C1420	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1315	1-216-049-00	METAL GLAZE 1K 5% 1/	/10W	C1421	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1316	1-216-071-00	METAL GLAZE 8.2K 5% 1	/10W	C1422 C1423		CERAMIC CHIP			25V 25V
R1317 R1318	1-216-083-00 1-216-051-00	METAL GLAZE 27K 5% 1/	/10W	C1424		CERAMIC CHIP		10%	50V
R1319	1-216-051-00		/10W /10W	C1425	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
R1320	1-216-067-00	METAL GLAZE 5.6K 5% 1	/10W	C1426		CERAMIC CHIP		5%	50V

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	NC		REMAR	K
C1427 C1428	1-124-916-11 1-163-038-91	CERAMIC CHIP 0.1MF	20%	50V 25V	FL1405 FL1406	1-236-071-11	ENCAPSULATED ENCAPSULATED	COMPONE	INT		
C1429	1-163-097-00	CERAMIC CHIP 15PF	5%	50V	FL1407	1-236-071-11	ENCAPSULATED	COMPONI	ENT		
C1430 C1431		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	100	25V	FL1408	1-236-071-11	ENCAPSULATED	COMPONE	TNE		
C1432		CERAMIC CHIP 0.1MF	10% 10%	25V 25V		< IC	>				
C1433	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V							
C1434	1-163-038-91	CERAMIC CHIP 0.1MF		25V	IC1401 IC1402	8-759-183-35 8-759-288-85					
C1435	1-163-038-91	CERAMIC CHIP 0.1MF		25V	IC1402		IC SDA9187-2	XGEG			
C1437	1-164-343-11	CERAMIC CHIP 0.056MF	10%	25V	IC1404	8-759-324-35	IC SDA9188-3				•
C1438 C1439		CERAMIC CHIP 0.001MF CERAMIC CHIP 47PF	10% 5%	50V 50V	IC1406	8-759-183-36	IC TDA8443B				
C1440		CERAMIC CHIP 56PF	5%	50V	IC1410	8-759-295-82	IC L78L08ACZ	-AP			
C1441	1-164-005-11	CERAMIC CHIP 0.47MF		25V		< COI	L >				
C1442	1-164-005-11	CERAMIC CHIP 0.47MF		25V							
C1443 C1444	1-163-251-11	CERAMIC CHIP 100PF CERAMIC CHIP 0.47MF	5%	50V 25V	L1401 L1405	1-408-418-00 1-408-407-00		56UH 6.8UI		•	
C1445		CERAMIC CHIP 0.47MF		25V	L1406	1-408-407-00		6.8UI			
					L1407	1-414-233-21	INDUCTOR, FE	RRITE BE	EAD		
C1446 C1451		CERAMIC CHIP 0.47MF CERAMIC CHIP 680PF	10%	25V 50V	L1408	1-414-233-21	INDUCTOR, FE	RRITE BI	EAD		
C1452		CERAMIC CHIP 0.1MF	10%	25V		< TRA	NSISTOR >				
C1453		CERAMIC CHIP 0.1MF		25V							
C1454	1-163-038-91	CERAMIC CHIP 0.1MF		25V	Q1401 Q1402	8-729-920-74	TRANSISTOR 2 TRANSISTOR 2	SC2412K-	-QR		
C1455			5%	50V	Q1403	8-729-920-74	TRANSISTOR 2	SC2412K	-QR		
C1456		CERAMIC CHIP 470PF	5%	50V	Q1404	8-729-216-22	TRANSISTOR 2	SA1162-0	3		
C1457 C1458		CERAMIC CHIP 0.47MF CERAMIC CHIP 2.2MF		25V 16V	Q1405	8-729-920-74	TRANSISTOR 2	SC2412K-	-QR		
C1459		CERAMIC CHIP 2.2MF		16V	Q1406		TRANSISTOR 2				
C1460	1_163_030_01	CERAMIC CHIP 0.1MF		25V	Q1407	8-729-216-22	TRANSISTOR 2 TRANSISTOR 2	SA1162-0	3		
C1461		CERAMIC CHIP 0.1MF		25V	Q1408 Q1409	8-729-216-22	TRANSISTOR 2	SA1162-0	j]		
C1462		CERAMIC CHIP 0.47MF		25V	Q1413	8-729-216-22	TRANSISTOR 2	SA1162-0	3		
C1463 C1464	1-126-101-11 1-126-101-11		20% 20%	16V 16V	Q1414	8-729-900-53	TRANSISTOR D	π C11 <i>l</i> F E			
		20011	200	201	Q1416	8-729-920-74	TRANSISTOR 2	SC2412K-	-QR		
C1465 C1466	1-126-101-11 1-126-101-11		20%	16V	Q1417	8-729-900-53	TRANSISTOR D	TC114EK			
C1467	1-126-101-11		20% 20%	16V 16V	Q1418 Q1419		TRANSISTOR D				
C1468		CERAMIC CHIP 2.2MF		16V							
C1469	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q1421 Q1422		TRANSISTOR 2 TRANSISTOR 2				
C1471	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	Q1425		TRANSISTOR 2				
C1472		CERAMIC CHIP 0.1MF	10%	25V	Q1426	8-729-920-74	TRANSISTOR 2	SC2412K-	-QR		
C1473 C1481		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.47MF	10%	25V 25V	Q1430	8-729-900-53	TRANSISTOR D	TC114EK			
C1482		CERAMIC CHIP 470PF	5%	50V	Q1431	8-729-901-04	TRANSISTOR D	TA114EK			
C1491	1-163-251-11	CERAMIC CHIP 100PF	5%	50V		< RES	SISTOR >				
	< CON	NECTOR >			JR1401	1-216-295-91	METAL GLAZE	0	5%	1/10W	
CN1514	*1-568-879-11	PIN, CONNECTOR 4P			JR1402	1-216-295-91	METAL GLAZE	0	5%	1/10W	
CN1515	*1-564-516-11	PLUG, CONNECTOR 13P			R1401	1-216-097-00		100K	5%	1/10W	
CN1516 CN1538	*1-568-879-11	PIN, CONNECTOR 4P CONNECTOR, BOARD TO BO	10n 10n		R1402 R1403	1-216-073-00 1-216-025-00		10K	5%	1/10W	
CMIJJO	1-3/3-233-21	COMMECTOR, BOARD TO BOX	AND IUP		R1404	1-216-025-00		100 100	5% 5%	1/10W 1/10W	
	< DIO	DE >			R1405	1-216-049-00		1K	5%	1/10W	
D1401		DIODE MA3051L			R1406	1-216-051-00		1.2K		1/10W	
D1403 D1404	8-719-914-43 8-719-014-42	DIODE DAN202K DIODE DA204K			R1407 R1408	1-216-057-00 1-216-041-00		2.2K		1/10W	
D1405		DIODE DA204K			R1408 R1410	1-216-041-00		470 150	5% 5 %	1/10W 1/10W	
	a PNO	. מפחון אחפה בדוחפה			R1411	1-216-041-00		470	5%	1/10W	
	< PNC	APSULATED FILTER >			R1412	1-216-041-00	METAL GLAZE	470	5%	1/10W	
FL1403	1-236-071-11	ENCAPSULATED COMPONENT			R1413	1-216-041-00	METAL GLAZE	470	5%	1/10W	
FL1404	1-236-071-11	ENCAPSULATED COMPONENT			R1414	1-216-045-00	METAL GLAZE	680	5%	1/10W	

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REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK
R1415 R1416	1-216-045-00	METAL GLAZE	680	5%	1/10W		*A-1630-303-A				
	1-216-049-00	METAL GLAZE	1K	5%	1/10W			*******	*****		
R1417	1-216-033-00	METAL GLAZE	220	5%	1/10W		< CAH	ACITOR >			
R1418	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R1419	1-216-027-00	METAL GLAZE	120	5%	1/10W	C1101	1-126-101-11	ELECT	100MF	20%	16V
R1421	1-216-033-00	METAL GLAZE	220	5%	1/10W	C1102	1-126-101-11	ELECT	100MF	20%	16V
R1422	1-216-023-00	METAL GLAZE	82	5%	1/10W	C1103	1-163-038-91	CERAMIC CHIP			25V
						C1104	1-163-077-00	CERAMIC CHIP		10%	25V
R1424	1-216-041-00	METAL GLAZE	470	5%	1/10W	C1105	1-164-489-11	CERAMIC CHIP		10%	16V
R1425	1-216-041-00	METAL GLAZE	470	5%	1/10W	01100	1 101 105 11	CDIGATIC CITT	O. BEHL	10.0	104
R1426	1-216-041-00	METAL GLAZE	470	5%	1/10W	C1106	1-163-187-00	CERAMIC CHIP	10000	5%	50V
R1427	1-216-041-00	METAL GLAZE	470	5%	1/10W	C1107	1-163-009-11	CERAMIC CHIP		10%	50V
R1429	1-216-091-00		56K	5%	1/10W	C1107	1-163-059-00	CERAMIC CHIP		102	50V
	0,- 00	022	301	3.0	1/10#	C1109	1-163-033-00	CERAMIC CHIP	0.01MF		
R1430	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	C1110	1-164-336-11				50V
R1431	1-216-073-00	METAL GLAZE	10K	5%	1/10W	CIII	1-104-336-11	CERAMIC CHIP	U.33MF		25V
R1434	1-216-043-91		560	5%		01111	1 162 000 11	000011170 00TD	0.0011	4.60	F.A
R1435	1-216-073-00	METAL GLAZE		-	1/10W	C1111	1-163-009-11	CERAMIC CHIP		10%	50 V
R1436			10K	5%	1/10W	C1112	1-164-161-11	CERAMIC CHIP		10%	50V
VIATO	1-216-043-91	METAL GLAZE	560	5%	1/10W	C1113	1-124-477-11		47MF	20%	16V
D1427	1 110 024 00	WDM11 OFFE	405	PA	4 /4 07-	C1114	1-163-038-91	CERAMIC CHIP			25V
R1437	1-216-031-00	METAL GLAZE	180	5%	1/10W	C1115	1-124-477-11	ELECT	47MF	20%	16V
R1438	1-216-045-00	METAL GLAZE	680	5%	1/10W	-411-					
R1439	1-216-057-00	METAL GLAZE	2.2K		1/10W	C1116	1-106-228-00	MYLAR	0.22MF	10%	100V
R1441	1-216-053-00	METAL GLAZE	1.5K		1/10W	C1117	1-163-081-00	CERAMIC CHIP			25V
R1442	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C1118	1-163-113-00	CERAMIC CHIP		5%	50V
-444						C1119	1-163-193-00	CERAMIC CHIP		5%	50V
R1443	1-216-053-00	METAL GLAZE	1.5K		1/10W	C1120	1-163-193-00	CERAMIC CHIP	330PF	5%	50V
R1444	1-216-041-00	METAL GLAZE	470	5%	1/10W						
R1445	1-216-083-00	METAL GLAZE	27K	5%	1/10W	C1121	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
R1449	1-216-033-00	METAL GLAZE	220	5%	1/10W	C1122	1-163-081-00	CERAMIC CHIP	0.22MF		25V
R1450	1-216-033-00	METAL GLAZE	220	5%	1/10W	C1123	1-106-228-00	MYLAR	0.22MF	10%	100V
						C1124	1-124-477-11	ELECT	47MF	20%	16V
R1453	1-216-025-00	METAL GLAZE	100	5%	1/10W	C1125	1-124-477-11	ELECT	47MF	20%	16V
R1454	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R1455	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C1126	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
R1456	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C1127	1-163-038-91	CERAMIC CHIP		10-0	25V
R1457	1-216-057-00		2.2K		1/10W	C1128	1-124-477-11	ELECT	47MF	20%	16V
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-/ N	C1129	1-163-038-91	CERAMIC CHIP		200	25V
R1458	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C1130	1-163-205-00	CERAMIC CHIP		10%	50V
R1462	1-216-073-00	METAL GLAZE	10K	5%	1/10W	01130	7 103 003 00	CERCAPITE CITT	0.001MF	10.0	304
R1464	1-216-093-00	METAL GLAZE	68K	5%	1/10W	C1131	1-163-059-00	CERAMIC CHIP	0.01MP		50V
R1465	1-216-093-00	METAL GLAZE	68K	5%	1/10W	C1132	1-163-039-00	CERAMIC CHIP			25V
R1466	1-216-295-91		0	5%	1/10W	C1132	1-124-907-11			200	
	1 110 103 71	HDING GUNDS	•	3.0	1/108	C1133			10MF	20%	50V
R1468	1-216-049-00	MEMAT CTATE	1K	5%	1 /1014		1-163-009-11	CERAMIC CHIP		10%	50V
R1469	1-216-049-00		1K	5%	1/10W	C1135	1-163-038-91	CERAMIC CHIP	U.IMF		25V
R1471					1/10W	01136	1 1/2 148 00	CENTURA CUE	10000	FA	P.A
R1471 R1481	1-216-037-00		330	5%	1/10W	C1136	1-163-117-00	CERAMIC CHIP	TOUPF	5%	50V
R1481 R1483	1-216-089-00	METAL GLAZE	47K	5%	1/10W	C1137	1-163-038-91	CERAMIC CHIP	U.1MF		25V
VT#02	1-216-079-00	METAL GLAZE	18K	5%	1/10W	C1138		CERAMIC CHIP		5%	50V
D1404	1 016 001 00	VIII 07.5	00-	PC.	4 /4 012	C1139		CERAMIC CHIP		5%	50V
R1484	1-216-081-00		22K	5%	1/10W	C1140	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
R1485	1-216-041-00		470	5%	1/10W		4 4 4 4 4				
R1486	1-216-033-00		220	5%	1/10W	C1141		CERAMIC CHIP		5%	50V
R1487	1-216-033-00		220	5%	1/10W	C1142		CERAMIC CHIP			50V
R1493	1-216-075-00	METAL GLAZE	12K	5%	1/10W	C1143		CERAMIC CHIP		10%	50V
md 40 -						C1144		CERAMIC CHIP		5%	50V
R1494	1-216-025-00		100	5%	1/10W	C1145	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
R1495	1-216-053-00		1.5K		1/10W						
R1496	1-216-065-00		4.7K		1/10W	C1146	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1497	1-216-053-00		1.5K		1/10W	C1147	1-124-477-11		47MF	20%	16V
R1498	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C1148		CERAMIC CHIP		10%	50V
						C1149	1-124-477-11		47MF	20%	16V
R1499	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C1150		CERAMIC CHIP			25V
	< CRY	STAL >				C1151		CERAMIC CHIP			25V
wd 4 A c	4 500 000					C1152	1-124-477-11		47MF	20%	16V.
X1401	1-567-505-11	OSCILLATOR,	CRYSTAL	1		C1153		CERAMIC CHIP		0.25PF	50V
X1402		OSCILLATOR,		1		C1154	1-163-038-91	CERAMIC CHIP	0.1MF		25V
X1403	1-760-551-21	VIBRATOR, CE	RAMIC			C1155	1-124-477-11	ELECT	47MF	20%	16V
						C1156	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
						1					

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
C1157	1-163-009-11	CERAMIC CHIP 0.001MF			R1112	1-216-051-00	MEMAI CIATE	1 20 5	- Q.	1 /1 0W	
C1158	4 4 6 4 4 4 4 4 4	A		A ====		1-216-001-00		1.2K 5		1/10W 1/10W	
01100	1 100 000 71	CDIMENTO CHILI VILIM		251	R1114	1-216-105-91		220K		1/10W	
	< FII	LTER >			R1115	1-216-121-00	METAL GLAZE		5%	1/10W	
BP1101	1-239-047-11	CERAMIC CHIP 0.1MF LTER > FILTER, BAND PASS TRAP, CERAMIC (6.5MH TRAP, CERAMIC (5.5MH NNECTOR >			R1116	1-216-049-00	METAL GLAZE	1K 5	5%	1/10W	
21101	1-235-047-11	FIDIEN, DAND FADO			R1117	1-216-097-00	METAL GLAZE	100K 5	5%	1/10W	
CF1101	1-409-327-00	TRAP, CERAMIC (6.5MH	IZ)	-	R1118	1-216-097-00			5%	1/10W	
CF1102	1-404-134-00	TRAP, CERAMIC (5.5MH	(Z)		R1119	1-216-073-00			5%	1/10W	
	ga.				R1120	1-216-232-00			5%	1/8W	
	< COI	NNECTOR >			R1121	1-216-081-00	METAL GLAZE	22K 5	5%	1/10W	
CN0201	1-695-300-11	CONNECTOR, BOARD TO	BOARD 20P		R1122	1-216-158-00			5%	1/8W	
	. DT/	ADM .			R1123	1-216-158-00			5%	1/8W	
•	< DI(ODE >			R1124 R1125	1-216-089-00			5%	1/10W	
D1101	8-719-914-44	DIODE DAP202K			R1125	1-216-097-00 1-216-218-00		100K 5		1/10W 1/8W	
D1102		DIODE 1SV217			KIIIO	1 210 210 00	METAL GLADE	o.on .	J.0	1/011	
D1103	8-719-820-71	DIODE 1SV214			R1127	1-216-097-00		100K	5%	1/10W	
					R1128	1-216-089-00			5%	1/10W	
	< FE	RRITE BEAD >			R1129	1-216-089-00			5%	1/10W	
FB1101	1_410_396_41	FERRITE BEAD INDUCTO	D A TETT		R1130 R1131	1-216-246-91 1-216-218-00		100K		1/8W	
FB1102		FERRITE BEAD INDUCTO			KIIJI	1-210-210-00	METAL GLAZE	6.8K	24	1/8W	
FB1103		FERRITE BEAD INDUCTO			R1132	1-216-097-00	METAL GLAZE	100K 5	5%	1/10W	
FB1104	1-410-396-41	FERRITE BEAD INDUCTO	R 0.45UH		R1133	1-216-089-00		47K	5%	1/10W	
FB1105	1-410-396-41	FERRITE BEAD INDUCTO	R 0.45UH		R1134	1-216-212-00	METAL GLAZE	3.9K	5%	1/8W	
9944AR	4 440 000 44				R1135	1-216-081-00			5%	1/10W	
FB1107	1-410-396-41	FERRITE BEAD INDUCTO	OR 0.45UH		R1136	1-216-081-00	METAL GLAZE	22K 5	5%	1/10W	
	< IC	>			R1137	1-216-095-00		82K 5	5%	1/10W	
201101	0 550 544 00				R1138	1-216-097-00	METAL GLAZE	100K		1/10W	
IC1101 IC1102		IC TDA8732 IC SAA7282P			R1139	1-216-005-00			5%	1/10W	
101102	0-759-075-17	IC SAA/202P			R1140 R1141	1-216-061-00 1-216-061-00		3.3K 5		1/10W 1/10W	
	< CO	IL >						3.3K	J.0	1/1011	
	4 400 407 00				R1142	1-216-033-00			5%	1/10W	
L1101 L1102	1-408-405-00 1-408-405-00				R1143	1-216-049-00			5% 5%	1/10W	
L1103	1-410-119-11	INDUCTOR 1MMH			R1144 R1145	1-216-049-00 1-216-001-00			5% 5%	1/10W 1/10W	
L1104	1-410-119-11				R1146	1-216-049-00			วช 5%	1/10W	
L1105	1-408-407-00		I						3.0	1/1011	
		1 MAT GMAD			R1147	1-216-045-00			5%	1/10W	
	< TR	ANSISTOR >			R1148	1-216-049-00			5%	1/10W	
01101	8-729-920-74	TRANSISTOR 2SC2412K-	OR		R1149 R1150	1-216-001-00 1-216-045-00	METAL GLAZE		5% 5%	1/10W 1/10W	
Q1102		TRANSISTOR 2SC2412K-			R1151	1-216-049-00			5%	1/10W	
Q1103	8-729-920-74	TRANSISTOR 2SC2412K-	·QR						•	_,	
Q1104	8-729-920-74	TRANSISTOR 2SC2412K-	·QR		R1152	1-216-049-00			5%	1/10W	
Q1105	8-729-920-74	TRANSISTOR 2SC2412K-	·QR		R1153	1-216-049-00			5%	1/10W	
Q1106	8-729-920-74	TRANSISTOR 2SC2412K-	.OP		R1154	1-216-041-00	METAL GLAZE	470	5%	1/10W	
Q1107		TRANSISTOR 2SC2412K-				< CRY	STAL >				
Q1108	8-729-920-74	TRANSISTOR 2SC2412K-	QR								
					X1101		VIBRATOR, CRY				
	< RE)	SISTOR >			X1102	1-579-282-21	VIBRATOR, CRY	STAL			
JR1102			5% 1/8		******	***********	*********	******	****	*****	******
JR1103 JR1104		METAL GLAZE 0 METAL GLAZE 0	5% 1/8 5% 1/1			+> 1622 207 3	3 DO3DD 0000	T 13MB			
OMIIVE	1-210-295-91	METAL GUALE 0	3% 1/1	UM		*A-1632-207-A	*********	****			
R1101		METAL GLAZE 390	5% 1/8			4 004 000					
R1103 R1104	1-216-198-91	METAL GLAZE 1K METAL GLAZE 470	5%. 1/8			4-201-023-11	SPACER, INSUI	ATING			
R1104 R1105			5% 1/1 5% 1/1			- 037	ACITOR >				
R1106		METAL GLAZE 300	5% 1/1			< CAP	WCIION >				
					C001	1-130-777-00		0.1MF	!	5%	63V
R1107			5% 1/1		C071	1-124-041-00		220MF		20%	16V
R1108	1-216-063-00	METAL GLAZE 3.9K			C072	1-124-120-11		220MF		20%	16V
R1109 R1110	1-216-202-00		5% 1/8 5% 1/8		C073		CERAMIC CHIP			5% 1.0%	50V
R1111			5% 1/1		C0/4	1-103-001-11	CERAMIC CHIP	44VPF		10%	50V
	00				1						



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	V		REMARK
C101 C102 C103 C104 C105	1-126-101-11 1-126-103-11 1-163-031-11 1-124-910-11 1-124-916-11	ELECT 470MF CERAMIC CHIP 0.01MF ELECT 47MF	20% 20% 20% 20%	16V 16V 50V 50V 50V	C304 C305 C306 C307 C308	1-164-004-11 1-163-117-00 1-163-117-00 1-163-017-00 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 100PF 0.0047MF	10% 5% 5% 10% 10%	25V 50V 50V 50V 25V
C106 C120 C201 C202 C203	1-124-927-11 1-163-031-11 1-130-489-00 1-130-489-00 1-164-005-11	CERAMIC CHIP 0.01MF FILM 0.033MF FILM 0.033MF CERAMIC CHIP 0.47MF	20% 5% 5%	50V 50V 50V 50V 25V	C309 C310 C311 C312 C313	1-164-004-11 1-163-038-91 1-163-077-00 1-124-910-11 1-163-077-91	CERAMIC CHIP	0.1MF 0.1MF 47MF	10% 10% 20%	25V 25V 25V 50V 50V
C204 C205 C206 C207 C208	1-164-005-11 1-124-907-11 1-164-161-11 1-137-613-11 1-164-005-11		20% 10% 2%	25V 50V 50V 100V 25V	C314 C315 C316 C317 C318	1-163-038-91 1-124-910-11 1-163-077-91 1-163-103-00 1-163-103-00	ELECT	47MF 0.1MF 27PF	20% 5% 5%	25V 50V 50V 50V 50V
C209 C210 C212 C213 C214	1-164-005-11 1-164-005-11 1-124-927-11 1-163-023-00 1-163-023-00	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF ELECT 4.7MF CERAMIC CHIP 0.015MF CERAMIC CHIP 0.015MF	20% 10% 10%	25V 25V 50V 50V 50V	C319 C320 C321 C322 C323	1-163-038-91 1-124-910-11 1-163-038-91 1-124-916-11 1-163-135-00	ELECT CERAMIC CHIP	47MF 0.1MF 22MF	20% 20% 5%	25V 50V 25V 50V 50V
C215 C216 C217 C218 C219	1-163-809-11 1-163-809-11 1-124-925-11 1-124-925-11 1-163-011-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF ELECT 2.2MF ELECT 2.2MF CERAMIC CHIP 0.0015MF	10% 10% 20% 20% 10%	25V 25V 50V 50V 50V	C324 C325 C333 C341 C342	1-124-910-11 1-216-295-91 1-163-213-00 1-163-077-00 1-163-077-00	METAL GLAZE CERAMIC CHIP	0.1MF	20% 1/10W 5% 10% 10%	50V 50V 25V 25V
C220 C221 C222 C223 C224	1-163-011-11 1-124-925-11 1-124-925-11 1-136-177-00 1-136-177-00	CERAMIC CHIP 0.0015MF ELECT 2.2MF ELECT 2.2MF FILM 1MF FILM 1MF	10% 20% 20% 5% 5%	50V 50V 50V 50V 50V	C343 C344 C345 C347 C348	1-164-004-11 1-162-638-11 1-162-638-11 1-162-638-11 1-162-638-11	CERAMIC CHIP :	1MF 1MF 1MF	10%	25V 16V 16V 16V 16V
C225 C226 C227 C228 C229	1-164-182-11 1-163-007-11 1-124-907-11 1-124-907-11 1-126-101-11	CERAMIC CHIP 0.0033MF CERAMIC CHIP 680PF ELECT 10MF ELECT 10MF ELECT 100MF	10% 10% 20% 20% 20%	50V 50V 50V 50V 16V	C349 C350 C351 C352 C353	1-162-638-11 1-124-907-11 1-126-101-11 1-163-031-11 1-162-638-11	ELECT ELECT CERAMIC CHIP	10MF 100MF 0.01MF	20% 20%	16V 50V 16V 50V 16V
C230 C231 C232 C233 C234	1-126-101-11 1-164-346-11 1-163-009-11 1-163-009-11 1-163-017-00	ELECT 100MF CERAMIC CHIP 1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.0047MF	20% 10% 10% 10%	16V 16V 50V 50V 50V	C354 C355 C356 C357 C358	1-162-638-11 1-164-299-11 1-164-299-11	CERAMIC CHIP : CERAMIC CHIP : CERAMIC CHIP : CERAMIC CHIP : CERAMIC CHIP :	1MF 0.22MF 0.22MF	10% 10% 10%	16V 16V 25V 25V 25V
C235 C236 C237 C238 C239	1-130-772-00 1-124-618-11 1-124-618-11 1-163-017-00 1-130-772-00	ELECT 2200MF ELECT 2200MF CERAMIC CHIP 0.0047MF	5% 20% 20% 10% 5%	63V 35V 35V 50V 63V	C359 C361 C362 C363 C365	1-124-907-11 1-163-101-00 1-130-772-00 1-124-907-11 1-124-120-11	CERAMIC CHIP : FILM :	10MF 22PF 0.22MF 10MF 220MF	20% 5% 5% 20% 20%	50V 50V 63V 50V 16V
C240 C241 C242 C244 C248	1-124-903-11	ELECT 22MF	20% 20% 20% 10% 5%	50V 50V 50V 50V 50V	C366 C401 C402 C403 C411	1-124-917-11 1-164-005-11	CERAMIC CHIP	33MF 0.47MF	20% 20%	50V 16V 50V 16V 25V
C249 C250 C251 C254 C255	1-124-902-00 1-163-129-00 1-126-320-11 1-163-133-00 1-163-133-00	ELECT 0.47MF CERAMIC CHIP 330PF ELECT 10MF CERAMIC CHIP 470PF CERAMIC CHIP 470PF	20% 5% 20% 5% 5%	50V 50V 16V 50V 50V	C412 C421 C422 C423 C424	1-124-910-11 1-124-910-11 1-106-367-00	ELECT	47MF 47MF 0.01MF	20% 20% 10% 5%	25V 50V 50V 400V 50V
C256 C257 C301 C302 C303	1-163-133-00 1-163-038-91 1-163-038-91	CERAMIC CHIP 470PF CERAMIC CHIP 470PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 2.2MF	5% 5%	50V 50V 25V 25V 16V	C425 C426 C427 C428 C429	1-124-910-11 1-164-346-11	CERAMIC CHIP 1	47mf 1mf	5% 20% 20%	50V 50V 16V 16V 16V



REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMA
C501	1-124-907-11		10MF	20%	50V	\$ 5 6	< FIL	TER >	
C502	1-124-902-00		0.47MF	20%	50v				
C503 C504	1-130-487-00 1-163-031-11	MYLAK CERAMIC CHIP	0.022MF 0.01MF	5%	50V 50V	CF581	1-577-611-11	OSCILALTOR, CERAMIC	
C505	1-136-598-11		3MF	5%	200V		< CON	NECTOR >	
C507	1-108-700-11		0.047MF	10%	200V	CN0001	*1-568-880-51	PIN, CONNECTOR 5P	
C508	1-102-973-00		100PF	5%	50 V	CN0101	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
C509	1-102-030-00		330PF	10%	50 0V	CN0103	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
C510 C514	1-136-565-11	FILM CERAMIC CHIP	0.015MF	3%	1.4KV 50V	CN0104		PIN, CONNECTOR 5P	
						CN0105		PIN, CONNECTOR 4P	
C515 C517	1-163-031-11 1-124-907-11	CERAMIC CHIP	0.01MF 10MF	20%	50V 50V	CN0108		PLUG, CONNECTOR 10P	
C517		CERAMIC CHIP		200	50V 50V	CN0109 CN0110		CONNECTOR, BOARD TO BOARD 50P PIN, CONNECTOR 7P	
C520	1-124-916-11		22MF	20%	50V	CN0113		CONNECTOR, BOARD TO BOARD 40P	
C522	1-123-024-21		33MF	20.0	160V	CN0114		PIN, CONNECTOR 4P	
C523	1-108-700-11		0.047MF	10%	200V	CN0115		PLUG, CONNECTOR 13P	
C524	1-124-477-11		47MF	20%	16V	CN0116		PIN, CONNECTOR 4P	
C525 C526		CERAMIC CHIP			50V	CN0119		PIN, CONNECTOR 3P	
C528	1-124-662-11		220MF	20%	50V 50V	CN0120 CN0121	*1-091-291-11	PIN, CONNECTOR (PC BOARD) 5P PIN, CONNECTOR (PC BOARD) 5P	
C529	1-126-320-11		10MF	20%	16V	CN0122		PIN, CONNECTOR (PC BOARD) 5P	
C530 C531	1-164-299-11	CERAMIC CHIP CERAMIC CHIP	0.22MF	10% 10%	25V 25V	CN0123 CN0124		PIN, CONNECTOR 5P PIN, CONNECTOR 5P	
C532		CERAMIC CHIP		5%	50V	CN0124		PIN, CONNECTOR 5P	
C536	1-124-662-11		220MF	20%	50V	CN0126		PLUG, CONNECTOR 8P	
C537	1-124-662-11	RLECT	220MF	20%	50V	CN0127	*1-564-512-11	PLUG, CONNECTOR 9P	
C539	1-124-907-11		10MF	20%	50V	CN0128		PIN, CONNECTOR 7P	
C542		CERAMIC CHIP			50V	CN0129	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
C543	1-163-031-11	CERAMIC CHIP	0.01MF		50V	CN0131		PIN, CONNECTOR 4P	
C544	1-163-031-11	CERAMIC CHIP	0.01MF		50V	CN0132	1-766-281-21	PIN, CONNECTOR (PC BOARD) 8P	
C545		CERAMIC CHIP			50 V	CN0133	*1-564-513-11	PLUG, CONNECTOR 10P	
C557	1-102-030-00		330PF	10%	500V	CN0134		PIN, CONNECTOR 5P	
C569 C574	1-123-935-00		33MF	20%	160V	CN0135		PIN, CONNECTOR (5MM PITCH) 2P	
C575	1-164-299-11	CERAMIC CHIP	0 22MF	5% 10%	50V 25V	CN0161	1-033-313-11	TAB (CONTACT)	
							< DIO	DE >	
C576 C577		CERAMIC CHIP		10% 5%	25V 50V	7060	0.710.014.44	DIODE DIDOCO	
C578		CERAMIC CHIP		3%	50V	D068		DIODE DAP202K DIODE DAP202K	
C579	1-124-910-11		47MF	20%	50V	D071		DIODE RD5.6ESB2	
C580		CERAMIC CHIP			50V	D073		DIODE RD5.6ESB2	
0504	4 450 004 44					D075	8-719-914-43	DIODE DAN202K	
C581		CERAMIC CHIP		0.00	50V	2000	0.710.014.40		
C582 C583	1-124-916-11	CERAMIC CHIP	22MF	20% 5%	50V 50V	D077		DIODE DAN202K DIODE RD5.6ESB2	
C585		CERAMIC CHIP		10%	50V	D079		DIODE RD5.6ESB2	
C586		CERAMIC CHIP		10%	50V	D101		DIODE MTZJ-33C	
						D206	8-719-914-43		
C587	1-124-903-11		1MF	20%	50V				
C588 C589	1-164-346-11	CERAMIC CHIP	1MF 470MF	20%	16V 16V	D207 D208		DIODE MTZJ-13C DIODE DAN202K	
C590	1-124-916-11		22MF	20%	50V	D209		DIODE 1SS133	
C591	1-124-925-11		2.2MF	20%	50V	D210		DIODE 1SS133	
araa			0.0045	4.00		D211	8-719-901-33	DIODE 1SS133	
C592 C593		CERAMIC CHIP CERAMIC CHIP		10% 10%	50V 50V	D212	0_710_001_22	DIODE 100122	
C595		CERAMIC CHIP		10% 5%	50V	D212 D213		DIODE 1SS133 DIODE DAN202K	
C599		CERAMIC CHIP		10%	50V	D301		DIODE DAN202K	
C680	1-128-526-11		100MF	20%	25V	D304		DIODE RD5.6ESB2	
C682	1-126-101-11		100MP	20%		D305	8-719-914-43	DIODE DAN202K	
C684	1-126-101-11		100MF 100MF	20%	16V 16V	D306	8-719-914-43	DIODE DAN202K	
C685	1-124-122-11		100MF	20%	50V	D307		DIODE DAN202K	
C686	1-124-916-11	ELECT	22MF	20%	50V	D308		DIODE 1SS226	
C687	1-124-916-11	ELECT	22MF	20%	50V	D311		DIODE 1SS226	
						D381	8-719-110-03	DIODE RD7.5ESB2	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D401		DIODE RD9.1ESB3		L502	1-410-645-31	INDUCTOR 100UH	
D403		DIODE RD9.1ESB3		L505	1-459-313-00	COIL WITH CORE (HWC)	
D405		DIODE RD9.1ESB3		L507		COIL WITH CORE (HWC)	,
D406 D407	8-719-110-14	DIODE RD9.1ESB3 DIODE RD9.1ESB3		L575	1-408-397-00	INDUCTOR 1UH	
	0-/19-110-14	DIODE RD9.1ESB3 DIODE RD9.1ESB3 DIODE RC38-06 DIODE EC38-06 DIODE RU-1C DIODE RD5.6ESB2 DIODE V09G DIODE DAN202K DIODE MTZJ-13B DIODE MTZJ-13B DIODE MTZJ-13B > IC CX-7948A IC CXA1656S IC ST24C16CB1 IC TDA2052 HOLDER, IC ; IC251 IC TDA2052 HOLDER, IC ; IC261 IC TDA9145/N2B IC TDA4661/V2 IC CXA1587S		L610	1-412-539-41	INDUCTOR 150UH	
D501 D502	8-719-971-20 8-719-971-20	DIODE ERC38-06 DIODE ERC38-06		L611	1-412-539-41	INDUCTOR 150UH	
D503	8-719-300-80	DIODE RU-1C			< TRA	NSISTOR >	
D504	8-719-109-89	DIODE RD5.6ESB2					
D505	8-719-900-95	DIODE V09G		Q071		TRANSISTOR DTA124EK	
D506	0 710 000 05	DIODE WOOG		Q101	8-729-216-22		
D508	8-719-900-93	DIODE DANSOSK		Q102 Q103		TRANSISTOR DTC124EK TRANSISTOR DTC114EK	
D510	8-719-914-43	DIODE DAN202K		Q104	8-729-216-22	TRANSISTOR 2SA1162-G	
D512	8-719-901-33	DIODE 1SS133		N			
D513	8-719-914-43	DIODE DAN202K		Q105		TRANSISTOR DTC114EK	
D514	0 710 014 42	DIODE DAMAGO		Q201	8-729-920-74	TRANSISTOR 2SC2412K-Q	R
D514 D522	8-719-914-43	DIODE DANSOSK		Q202 Q203	8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-C	
D523	8-719-914-43	DIODE DAN202K		Q204	8-729-216-22		, K
D524	8-719-914-43	DIODE DAN202K		X. v.	0 725 210 22	INDIDION DUNITOR O	
D525	8-719-914-43	DIODE DAN202K		Q205	8-729-216-22		
DEAC	0 510 014 40	DTADE D14000		Q206	8-729-216-22	TRANSISTOR 2SA1162-G	
D526 D555	8-719-914-43	DIODE DANZOZK		Q207	8-729-920-74	TRANSISTOR 2SC2412K-Q	PR
D571	8-719-800-76	DIODE 1SS226		Q209 Q210	8-729-920-74	TRANSISTOR 2SC2412K-Q	ZK QC
D615	8-719-921-88	DIODE MTZJ-13B		Yard	0 125 520 14	IMMODISTON EDCERIEN	A.
D616	8-719-921-88	DIODE MTZJ-13B		Q301	8-729-901-00	TRANSISTOR DTC124EK	
				Q302	8-729-216-22	TRANSISTOR 2SA1162-G	,
	< IC	>		Q303		TRANSISTOR 2SA1162-G	
IC001	8-752-037-04	IC CX-7948A		Q304 Q305	8-729-900-53 8-729-901-01		
IC005	8-752-058-71	IC CXA1656S		8000	0 725 501 01	HUMBIDION DICITION	
IC072	8-759-184-27	IC ST24C16CB1		Q306		TRANSISTOR 2SA1162-G	
IC201	8-759-266-64	IC TDA6612-5		Q308	8-729-216-22	TRANSISTOR 2SA1162-G	
IC202	8-759-502-21	IC TDAZ822M		Q309		TRANSISTOR 2SC2413KQ	
IC251	8-759-072-99	IC TDA2052		Q310 Q311	8-729-901-00 8-729-901-06	TRANSISTOR DTC124EK TRANSISTOR DTA144EK	
	4-200-001-11	HOLDER, IC ; IC251		80	0 723 302 00	IIIIDIDION DINITALIN	
IC261	8-759-072-99	IC TDA2052		Q312		TRANSISTOR DTC114EK	
T0201	4-200-001-11	HOLDER, IC ; IC261		Q401	8-729-920-74	TRANSISTOR 2SC2412K-Q)R
IC301	8-759-189-90	IC TDA9145/N2B		Q402 Q403		TRANSISTOR 2SC2412K-Q	
IC302	8-759-084-91	IC TDA4661/V2		Q403 Q404		TRANSISTOR 2SC2412K-Q	
IC304	8-752-056-54	IC CXA1587S		¥101	0 /25 520 /4	INTERDIDION SOCIATION	, A.
IC401	8-752-068-46			Q501		TRANSISTOR 2SC2688-LF	
IC402	8-759-073-00			Q502		TRANSISTOR 2SC4927-01	
IC502	8-752-057-18	IC CXAISISP		Q503	4-382-854-11	SCREW (M3X10), P, SW TRANSISTOR 2SA1162-G	(+) ; Q502
IC681	8-759-231-58	IC TA7812S		Q504		TRANSISTOR 2SC2412K-Q	אַר
	4-382-854-11	SCREW (M3X10), P, SW (+);	IC681	-			·
IC682		IC UPD6600AGS-B50		Q505		TRANSISTOR 2SA1013-0	
	4-382-854-11	SCREW (M3X10), P, SW (+);	10682	Q506 Q507	8-729-201-32	TRANSISTOR 2SA1013-0 TRANSISTOR 2SB649A-C	•
IC683	8-759-701-59	IC NJM78M09FA		QSUI	0-129-304-92	TRANSISTOR 25B049A-C	
		SPRING, IC; IC683		Q508	8-729-204-16	TRANSISTOR 2SA1301-0	
						SPACER, MICA; Q508	
	< IF	BLOCK >		Q509		SCREW (M3X10), P, SW	
IFB101	1-467-573-11	IF BLOCK (IFH-389FX)		Q519		TRANSISTOR 2SC2412K-Q TRANSISTOR 2SC2412K-Q	
	< CO1	TL >		Q511		TRANSISTOR 2SC2412K-0	
	\ C01			Q511 Q515		TRANSISTOR 2SC2412K-C	ya.
L101	1-412-546-41	INDUCTOR 560UH		Q516	8-729-216-22	TRANSISTOR 2SA1162-G	
L102	1-408-413-00	INDUCTOR 22UH		Q517	8-729-216-22	TRANSISTOR 2SA1162-G	
L201 L306	1-410-067-21 1-408-405-00			Q518	8-729-920-74	TRANSISTOR 2SC2412K-C)R
L306	1-408-405-00			Q519	8-729-920-74	TRANSISTOR 2SC2412K-()R
				Q519 Q520		TRANSISTOR 2SC2412K-(
L308	1-408-417-00		apering and a second	Q521	8-729-920-74	TRANSISTOR 2SC2412K-Q)R
L501	1-460-196-11	COIL, HORIZONTAL LINEARITY		Q522	8-729-920-74	TRANSISTOR 2SC2412K-Q	P



REF.NO.	PART NO.	DESCRIPTION	ON		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N ·		REA	/AF
Q524 Q525 Q581 Q582	8-729-920-74 8-729-216-22	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	TC124EK SC2412K-Q SA1162-G)R		JR62 JR63 JR64	1-216-295-91 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/10W 1/8W 1/8W	
Q599 Q611	8-729-920-74 8-729-900-53	TRANSISTOR D)R		JR65 JR66 JR67	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/8W	
W011		ISTOR >	ICIIIBN			JR68 JR69	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W	
T	1 015 005 00			••	4 1000							
JR1 JR2 JR3	1-216-296-00 1-216-296-00 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5	% % %	1/8W 1/8W 1/10W	JR70 JR71 JR72	1-216-296-00 1-216-296-00 1-216-296-00		0	5% 5% 5%	1/8W 1/8W 1/8W	
JR4 JR5	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	-	5% 5%	1/8W 1/8W	JR74 JR75	1-216-295-91 1-216-296-00		0	5% 5%	1/10W 1/8W	
JR6 JR7	1-216-296-00 1-216-295-91	METAL GLAZE METAL GLAZE		5% 5%	1/8W 1/10W	JR76 JR77	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W	
JR8	1-216-296-00			5%	1/8W	JR78	1-216-296-00		0	5%	1/8W	
JR9 JR10	1-216-295-91 1-216-295-91			% %	1/10W 1/10W	JR80 JR81	1-216-295-91 1-216-296-00		0 0	5% 5%	1/10W 1/8W	
JR11	1-216-296-00	METAL GLAZE		5%	1/8W	JR82	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR12 JR13		METAL GLAZE		%	1/8W	JR83	1-216-296-00		0	5%	1/8W	
JR14		METAL GLAZE METAL GLAZE		5% 5%	1/8W 1/8W	JR87 JR100	1-216-295-91 1-216-073-00	METAL GLAZE	0 10K	5% 5%	1/10W 1/10W	
JR15	1-216-296-00	METAL GLAZE	-	5%	1/8W	JR103	1-216-295-91		0	5%	1/10W	
JR16		METAL GLAZE		5%	1/8W	JR110	1-216-295-91		0	5%	1/10W	
JR17	1-216-295-91			5%	1/10W	JR130	1-216-295-91		0	5%	1/10W	
JR18 JR19	1-216-295-91 1-216-295-91			5% 5%	1/10W 1/10W	JR234 JR403	1-216-295-91 1-216-295-91		0	5% 5%	1/10W 1/10W	
JR21	1-216-296-00		0 . 5		1/8W	R001	1-216-341-11		0.22	5%	17 10W F	
JR22	1-216-295-91			5%	1/10W	R071	1-216-041-00		470	5%	1/10W	
JR23	1-216-295-91			5%	1/10W	R072	1-216-033-00		220	5%	1/10W	
JR24 JR25	1-216-295-91 1-216-296-00			5%	1/10W	R073	1-216-033-00		220	5%	1/10W	
JR26	1-216-295-91	METAL GLAZE METAL GLAZE		5% 5%	1/8W 1/10W	R074	1-216-198-91	METAL GLAZE	1K	5%	1/8W	
						R076	1-216-057-00		2.2K	5%	1/10W	
JR27 JR28	1-216-295-91 1-216-295-91			5%	1/10W	R077	1-216-025-00		100	5%	1/10W	
JR29	1-216-295-91			5% 5%	1/10W 1/10W	R100 R101	1-216-097-00 1-216-025-00	METAL GLAZE METAL GLAZE	100K 100	5% 5%	1/10W 1/10W	
JR30	1-216-295-91	METAL GLAZE		5%	1/10W	R102	1-216-025-00	METAL GLAZE	1K	5%	1/10W	
JR31	1-216-295-91			5%	1/10W							
JR32	1-216-295-91	WEMAT CTARR	0 5	5%	1 /1 0m	R104	1-216-073-00		10K	5%	1/10W	
JR33	1-216-295-91			5%	1/10W 1/10W	R105 R106	1-216-073-00 1-216-073-00		10K 10K	5% 5%	1/10W 1/10W	
JR34	1-216-296-00		-	5%	1/8W	R107	1-216-061-00		3.3K		1/10W	
JR35	1-216-296-00	METAL GLAZE	0 5	5%	1/8W	R108	1-216-230-00		22K	5%	1/8W	
JR36	1-216-295-91	METAL GLAZE	0 5	5%	1/10W	D115	1 016 010 00	VIII)	2 25	F0.	4 /000	
JR37	1-216-296-00	METAL CLASE	0 5	5%	1/8W	R115 R201	1-216-210-00 1-208-784-11		3.3K		1/8W 1/10W	
JR38	1-216-296-00		-	5%	1/8W	R202	1-208-784-11				1/10W	
JR39	1-216-295-91			5%	1/10W	R203	1-216-067-00		5.6K		1/10W	
JR40	1-216-295-91			5%	1/10W	R204	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
JR41	1-216-296-00	METAL GLAZE	0 5	5%	1/8W	D205	1 016 005 01	WEETLY OF LET	^	FQ.	1 /1 027	
JR42	1-216-296-00	METAL GLAZE	0 5	5%	1/8W	R205 R206	1-216-295-91 1-216-295-91		0 0	5% 5%	1/10W 1/10W	
JR43	1-216-296-00			5%	1/8W	R207	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
JR44	1-216-296-00		0 5	5%	1/8W	R208	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
JR47	1-216-296-00			5%	1/8W	R209	1-249-377-11	CARBON	0.47	5%	1/4W F	
JR48	1-216-295-91	METAL GLAZE	0 5	5%	1/10W	R210	1-247-739-11	CARBON	100	5%	1/2W	
JR54	1-216-296-00	METAL GLAZE	0 5	5%	1/8W	R211	1-247-739-11		100	5%	1/2W	
JR55	1-216-296-00		0 5	5%	1/8W	R212	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
JR56	1-216-296-00			5%	1/8W	R213	1-216-073-00		10K	5%	1/10W	
JR57 JR58	1-216-295-91 1-216-295-91			5% 5%	1/10W	R214	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
0110	1-210-233-31	METAL GLAGE	v :	20	1/10W	R215	1-216-073-00	METAL CLATE	10K	5%	1/10W	
JR60	1-216-296-00	METAL GLAZE	0 5	5%	1/8W	R215	1-216-049-00		1K	5%	1/10W	
JR61	1-216-296-00	METAL GLAZE		5%	1/8W	R217	1-216-043-91		560	5%	1/10W	
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REF.NO.	PART NO.	DESCRIPTION	4		REMAR	<u>RK</u>	REF.NO.	PART NO.	DESCRIPTIO	N		REMA	RK
R218 R221	1-216-081-00 1-212-849-00	METAL GLAZE FUSIBLE	22K 4.7	5% 5%	1/10W 1/4W F		R321 R322	1-216-039-00 1-216-041-00	METAL GLAZE METAL GLAZE	390 470	5% 5%	1/10W 1/10W	
R222 R223 R224 R225 R226	1-216-049-00 1-216-043-91 1-216-081-00 1-212-849-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE FUSIBLE METAL GLAZE	1K 560 22K 4.7 390	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W F 1/10W		R324 R325 R326 R328 R329	1-216-049-00 1-216-047-00 1-216-073-00 1-216-029-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 820 10K 150 82	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R227 R228 R229 R230 R231	1-216-081-00 1-216-081-00 1-216-039-00 1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 390 100K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R330 R331 R333 R334 R335	1-216-053-00 1-216-097-00 1-216-182-00 1-216-182-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 100K 220 220 100	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/10W	
R232 R233 R234 R235 R236	1-216-081-00 1-216-071-00 1-216-069-00 1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 8.2K 6.8K 10K 22K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R336 R337 R338 R339 R340	1-216-295-91 1-216-295-91 1-216-295-91 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R237 R238 R239 R241 R242	1-216-025-00 1-216-025-00 1-216-295-91 1-216-065-00 1-216-214-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 0 4.7K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W		R341 R342 R343 R344 R345	1-216-025-00 1-216-033-00 1-216-022-00 1-216-022-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 220 75 75 75	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R244 R245 R246 R247 R248	1-216-069-00 1-216-089-00 1-216-097-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 47K 100K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R346 R347 R351 R352 R354	1-216-022-00 1-216-083-00 1-216-073-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 27K 10K 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R249 R250 R251 R252 R253	1-216-045-00 1-216-095-00 1-216-065-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 82K 4.7K 10K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R355 R356 R357 R358 R359	1-216-033-00 1-216-033-00 1-216-041-00 1-216-031-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 470 180 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R254 R255 R256 R257 R258	1-216-252-00 1-216-252-00 1-216-182-00 1-216-182-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180K 180K 220 220 47K	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/10W		R360 R361 R362 R365 R366	1-216-033-00 1-216-033-00 1-216-077-00 1-216-073-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 15K 10K 5.6K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R259 R260 R300 R301 R302	1-216-049-00 1-216-049-00 1-216-009-00 1-216-041-00 1-216-190-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 22 470 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W		R367 R368 R369 R370 R371	1-216-296-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 220 220 220 220	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	
R303 R304 R305 R306 R307	1-216-174-00 1-216-174-00 1-216-035-00 1-216-035-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 270 270 12K	5% 5% 5% 5%	1/8W 1/8W 1/10W 1/10W 1/10W		R373 R374 R376 R377 R378	1-216-017-00 1-216-041-00 1-216-065-00 1-216-051-00 1-216-057-00		47 470 4.7K 1.2K 2.2K	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R308 R309 R310 R311 R312	1-216-121-00 1-216-001-00 1-216-001-00 1-216-065-00 1-216-041-00	METAL GLAZE	1M 10 10 4.7K 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R379 R380 R381 R382 R383	1-216-057-00 1-216-057-00 1-216-164-00 1-216-164-00 1-216-164-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 39 39 39	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/8W	
R313 R314 R315 R316 R317	1-216-081-00 1-216-033-00 1-216-033-00 1-216-085-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 220 220 33K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R401 R402 R403 R404 R405	1-216-171-00 1-216-158-00 1-216-025-00 1-216-158-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 22 100 22 100	5% 5% 5% 5%	1/8W 1/8W 1/10W 1/8W 1/10W	
R318 R319 R320	1-216-041-00 1-216-041-00 1-216-174-00	METAL GLAZE	470 470 100	5% 5% 5%	1/10W 1/10W 1/8W		R406 R407 R408	1-216-158-00 1-216-025-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE	22 100 68K	5% 5% 5%	1/8W 1/10W 1/10W	



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REF.NO.	PART NO.	DESCRIPTIO	M		REMARK	REF.NO.	PART NO.	DESCRIPTION	Ň			REMAF
R410 R411	1-216-067-00 1-216-067-00		5.6K 5.6K		1/10W 1/10W	R552 R553	1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE	10K 2.2K	5% 5%	1/10W 1/10W	
R412	1-216-171-00		75	5%	1/8W	R554	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R413 R414	1-216-171-00 1-216-171-00		75	5%	1/8W	R555	1-249-421-11		2.2K	5%	1/4W	F
R416	1-216-171-00		75 470K	5% 5%	1/8W 1/10W	R556 R558	1-216-049-00 1-249-385-11	METAL GLAZE	1K	5%	1/10W	-
R417	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	R563	1-216-097-00	CARBON METAL GLAZE	2.2 100K	5% 5%	1/4W 1/10W	r
R419	1-216-113-00	METAL GLAZE	470K	5%	1/10W	R564	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R420	1-216-063-00		3.9K	5%	1/10W	R565	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R423 R424	1-216-015-00 1-216-025-00	METAL GLAZE	39	5%	1/10W	R566	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R425	1-216-025-00	METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R567 R568	1-216-045-00 1-216-045-00	METAL GLAZE METAL GLAZE	680 680	5% 5%	1/10W 1/10W	
R426	1-216-025-00	METAL GLAZE	100	5%	1/10W	R569	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R427	1-216-025-00	METAL GLAZE	100	5%	1/10W	R570	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R428 R470	1-249-393-11 1-216-113-00		10	5%	1/4W F	R571	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R501	1-247-895-00	CARBON	470K 470K	5% 5%	1/10W 1/4W	R572 R573	1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE	1K 10K	5% 5%	1/10W 1/10W	
R502	1-249-377-11	CARBON	0.47	5%	1/4W F	R574	1-216-041-00					
R503	1-249-377-11		0.47	5%	1/4W F	R575	1-216-186-00	METAL GLAZE METAL GLAZE	470 330	5% 5%	1/10W 1/8W	
R504	1-249-417-11		1K	5%	1/4W	R576	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R505 R506	1-249-419-11 1-215-920-11		1.5K	5%	1/4W	R577	1-216-025-00	METAL GLAZE	100	5%	1/10W	
		WELAT OXIDE	3.3K	5%	3W F	R579	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R507	1-249-429-11	CARBON	10K	5%	1/4W F	R580	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R508 R509	1-216-372-11 1-216-478-11		1.8 390	5% 5%	2W F 3W F	R581	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R510	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R582 R583	1-216-037-00 1-216-055-00	METAL GLAZE	330 1.8K	5% 5%	1/10W 1/10W	
R511	1-247-811-31	CARBON	150	5%	1/4W	R584	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R513	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R585	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R514 R515	1-215-877-11 1-249-430-11	METAL OXIDE CARBON	22K 12K	5%	1W F	R586	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R516	1-249-417-11		1K	5% 5%	1/4W F 1/4W	R587 R588	1-216-047-00 1-216-101-00	METAL GLAZE	820 150K	5% 5%	1/10W 1/10W	
R517	1-249-426-11	CARBON	5.6K	5%	1/4W F	R589	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R518	1-249-425-11		4.7K	5%	1/4W F	R590	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R519	1-249-417-11		1K	5%	1/4W F	R591	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R520 R521	1-215-925-11 1-215-877-11	METAL OXIDE	22K 22K	5% 5%	3W F 1W F	R592 R593	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R522	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R594	1-216-071-00 1-216-061-00	METAL GLAZE	8.2K 3.3K	5% 5%	1/10W 1/10W	
R523	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R595	1-208-774-11	METAL CHIP	470	0.50%	1/10W	
R524	1-216-083-00	METAL GLAZE	27K		1/10W	R596	1-216-067-00	METAL GLAZE	5.6K		1/10W	
R525 R526	1-216-097-00 1-216-067-00	METAL GLAZE	100K 5.6K		1/10W	R597	1-216-230-00		22K	5%	1/8W	
R527	1-249-429-11	CARBON	10K	5%	1/10W 1/4W	R598 R600	1-216-053-00 1-216-174-00		1.5K 100	5% 5%	1/10W	
R528	1-216-059-00									30	1/8W	
R531	1-216-077-00	METAL GLAZE	2.7K 15K	5%	1/10W 1/10W	R606 R609	1-216-049-00 1-216-689-11		1K 39K	5%	1/10W	
R532	1-249-385-11	CARBON	2.2	5%	1/4W F	R610	1-216-049-00		1K	5% 5%	1/10W 1/10W	
R533	1-216-033-00		220	5%	1/10W	R611	1-216-295-91	METAL GLAZE	0	5%	1/10W	
R536	1-216-476-11		180	5%	3W F	R613	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R537 R540	1-216-476-11	METAL OXIDE	180	5%	3W F	R614			6.8	5%		F
R541	1-216-049-00 1-216-081-00	METAL GLAZE	1K 22K	5% 5%	1/10W 1/10W	R618 R620	1-216-061-00 1-216-065-00	METAL GLAZE	3.3K 4.7K		1/10W	
R542	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R621	1-216-399-00		4./K	5% 5%	1/10W 3W	F
R543	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R624			10K	5%	1/10W	-
R544	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R625	1-216-081-00		22K	5%	1/10W	
R545 R546	1-216-049-00 1-216-083-00		1K 27K	5% 5%	1/10W 1/10W	R626	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R547	1-216-067-00		5.6K		1/10W 1/10W	R627 R628	1-216-033-00 1-215-866-11		220 330	5% 5 %	1/10W 1W	F
R548		METAL GLAZE	15K	5%	1/10W	R629	1-216-488-11		18K	5%		F
R549	1-216-073-00		10K	5%	1/10W	R631	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R550	1-249-385-11			5%	1/4W F	R632	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R551	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R636	1-216-025-00	METAL GLAZE	100	5%	1/10W	

A	IF
DEE NO	DADT NO

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	N		REMARK
			•	-		***************************************	-	-	_		
R638 R640	1-216-009-00 1-216-081-00	METAL GLAZE METAL GLAZE	22 5% 22K 5%	1/10W 1/10W		C151			47MF	20%	16V
R641	1-216-073-00	METAL GLAZE	10K 5%	1/10W		C152 C161	1-124-477-11 1-124-477-11		47MF 47MF	20% 20%	16V 16V
R642	1-216-295-91		0 5%	1/10W		C162	1-124-477-11		47MF	20%	16V
R643	1-216-073-00		10K 5%	1/10W		C173	1-163-017-00	CERAMIC CHIP		10%	50V
R644	1-215-912-11		150 5%	3W		C174	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
R645	1-215-912-11		150 5%	3W		C175		CERAMIC CHIP		0.5PF	50V
R646	1-216-073-00		10K 5%	1/10W		C177		CERAMIC CHIP		10%	25V
R650	1-216-055-00		1.8K 5%	1/10W		C191		CERAMIC CHIP		10%	50V
R651 R655	1-216-055-00 1-216-083-00		1.8K 5% 27K 5%	1/10W 1/10W		C201 C202		CERAMIC CHIP		10%	16V 50V
R656	1-216-089-00		47K 5%	1/10W		CZUZ	1-104-252-11	CERAMIC CHIP	U.UIMF	104	304
				-,		C203	1-124-477-11	ELECT	47MF	20%	16V
R657	1-216-238-91		47K 5%	1/8W		C204		CERAMIC CHIP			16V
R1520	1-249-429-11		10K 5%	1/4W		C205		CERAMIC CHIP		10%	50V
R2219 R2220	1-216-174-00 1-216-174-00		100 5% 100 5%	1/8W		C206 C207		CERAMIC CHIP		5%	50V
R2221	1-216-174-00		100 5% 100 5%	1/8W 1/8W		C207	1-104-222-11	CERAMIC CHIP	U.ZZMF		25V
	1 110 171 00	maria dana	100 30	4/011		C208	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
R2222	1-216-174-00	METAL GLAZE	100 5%	1/8W		C302		CERAMIC CHIP		10%	50V
						C502	1-124-477-11		47MF	20%	16V
	< TRA	ANSFORMER >				C503		CERAMIC CHIP		10%	50V
T501	1_420_545_11	TRANSFORMER,	מחדממקק			C901	1-124-477-11	ELECT	47MF	20%	16V
T502	1-437-078-00	TRANSFORMER,	HORIZONTAL	DRIVE		C902	1-163-059-91	CERAMIC CHIP	0.01MF	10%	50V
	< TU	VER >					< FII	TER >			
TU101	1-693-185-11	TUNER (UV916H)			CF171	1-567-100-00	FILTER, CERA	MIC		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•			CF172		FILTER, CERAL			
	< CR	(STAL >				CF173		FILTER, CERAI			
w202	1-760-331-11	WINDAMOR ORW	Cm3.7		1	CF174	1-760-106-21	FILTER, CERA	MIC		
X501		VIBRATOR, CER				SWF101		FILTER, SURF			
*****	******	******	******	*****	******	SWF103	1-760-244-21	FILTER, SURF	ACE WAVE		
	1-467-573-11	IF BLOCK (IFH	-389EY)				< COM	INECTOR >			
	1-40/-3/3-11	********				CN1	1-750-919-11	PIN, CONNECT	OR (PC BOARD) 10P	•
	< CA	PACITOR >				CN2		PIN, CONNECT			
C101		CERAMIC CHIP	0.0047102	10%	50V		< TRI	IMMER >			
C101		CERAMIC CHIP			50V 50V	CT101	1-760-154-21	TRAP, CERAMI	r		
	1-163-017-00				50V		1-409-430-11				
C111		CERAMIC CHIP		10%	25V						
C112	1-163-133-00	CERAMIC CHIP	470PF	5%	50V		< DIC	DE >			
C113		CERAMIC CHIP		10%	16V	D101		DIODE DAN202			
C114	1-124-925-11		2.2MF	20%	50V	D171		DIODE DAN202			
C115 C116	1-124-916-11 1-124-916-11		22MF 22MF	20% 20%	50 V 50 V	D201	8-719-914-43	DIODE DAN202	K		
C117		CERAMIC CHIP		0.25PF			< IC	>			
				******	•••						
C120	1-124-925-11		2.2MF	20%	50V	IC1	8-759-193-13				
C121 C122	1-124-925-11	CERAMIC CHIP	2.2MF	20% 10%	50V 16V	IC2 IC3	8-759-514-54 8-752-069-79				
C122		CERAMIC CHIP		10%	50V	IC4		IC NJM2233BM			
C126		CERAMIC CHIP		0.25PF		104	0-133-110-00	IC NUMEZIJEM			
							< CO	IL >			
C128		CERAMIC CHIP		10%	16V	.4.1					
C131		CERAMIC CHIP		5%	50V	L101	1-408-419-00		68UH		
C132 C133		CERAMIC CHIP		5% 5%	50V 50V	L102 L131	1-410-985-11	INDUCTOR CHI	P 0.22UH 6.8UH		
C134		CERAMIC CHIP		5%	50V	L132	1-410-426-21		39UH		
				-		L142	1-408-409-00		10UH		
C135	1-124-477-11		47MF	20%	16V						
C141		CERAMIC CHIP		5%	50V	L171	1-408-609-41		33UH		
C143 C145	1-163-251-11 1-124-477-11	CERAMIC CHIP	100PF 47MF	5% 20%	50V 16V	L201 L501	1-408-419-00 1-408-411-00		68UH 15UH		
0143	T-174-411-TT	BHRC1	Z / PIE	200	104	1301	T-400-4TT-00	INDUCTOR	1301		



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMA
L901	1-408-411-00	INDUCTOR 15UH		JR137	1-216-296-91	METAL GLAZE 0	5%	1/8W
Q101 Q102 Q104 Q121	< TRA 8-729-104-80 8-729-901-01 8-729-901-01	INDUCTOR 15UH INSISTOR > TRANSISTOR 2SC3355 TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		JR138 JR140 JR141 JR142 JR143	1-216-296-91 1-216-296-91 1-216-296-91 1-216-295-91 1-216-296-91	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 5% 5%	1/8W 1/8W 1/8W 1/10W 1/8W
Q131 Q132 Q141 Q142	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		JR145 JR146 JR150 JR152 JR154	1-216-296-91 1-216-295-91 1-216-295-91 1-216-296-91 1-216-296-91	METAL GLAZE O METAL GLAZE O METAL GLAZE O	5% 5% 5%	1/8W 1/10W 1/10W 1/8W 1/8W
Q151 Q152 Q153 Q154 Q161 Q162	8-729-920-74 8-729-920-74 8-729-901-01 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		JR160 JR161 JR162 JR166 JR167	1-216-296-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-296-91	METAL GLAZE COMETAL GLAZE COMETAL GLAZE	5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/8W
Q171 Q174 Q175 Q176 Q181 Q191	8-729-216-22 8-729-901-01 8-729-901-01 8-729-901-01 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R100 R102 R103 R104 R105	1-216-025-00 1-216-059-00 1-216-001-00 1-216-176-11 1-216-017-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 2.7K 5% 10 5% 120 5% 17 5%	1/10W 1/10W 1/10W 1/8W 1/10W
0201	8-729-216-22 8-729-216-22 < RES	TRANSISTOR 2SA1162-G TRANSISTOR >		R106 R107 R109 R111 R113	1-216-057-00 1-216-057-00 1-216-057-00 1-216-295-91 1-216-031-00	METAL GLAZE 2 METAL GLAZE 2 METAL GLAZE 0	2.2K 5% 2.2K 5% 2.2K 5% 2.2K 5% 5% 180 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR101 JR102 JR103 JR104 JR106		METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/8W 1/8W 1/10W 1/8W	R114 R115 R116 R117 R118	1-216-035-00 1-216-035-00 1-216-025-00 1-216-031-00 1-216-061-00	METAL GLAZE 1 METAL GLAZE 1	270 5% 270 5% 100 5% 180 5% 3.3K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR107 JR109 JR110 JR111 JR112	1-216-295-91 1-216-295-91 1-216-295-91 1-216-296-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/8W 1/10W	R120 R131 R133 R134 R135	1-216-180-00 1-216-198-91 1-216-031-00 1-216-049-00 1-216-295-91	METAL GLAZE 1 METAL GLAZE 1 METAL GLAZE 1	180 5% 1R 5% 180 5% 1K 5% 0 5%	1/8W 1/8W 1/10W 1/10W 1/10W
JR113 JR114 JR115 JR116 JR117	1-216-296-91 1-216-295-91 1-216-295-91 1-216-296-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/8W 1/10W 1/10W 1/8W 1/8W	R136 R137 R138 R139 R140	1-216-041-00 1-216-041-00 1-216-049-00 1-216-067-00 1-216-295-91	METAL GLAZE 1 METAL GLAZE 1	170 5% 170 5% 1K 5% 5.6K 5% 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR118 JR119 JR120 JR121 JR122	1-216-296-91 1-216-296-91 1-216-295-91 1-216-296-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/8W 1/8W 1/10W 1/8W 1/8W	R142 R144 R145 R146 R147	1-216-049-00 1-216-041-00 1-216-041-00 1-216-043-00 1-216-025-00	METAL GLAZE 4 METAL GLAZE 4 METAL GLAZE 5	1K 5% 470 5% 470 5% 560 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR123 JR124 JR125 JR126 JR127	1-216-296-91 1-216-296-91 1-216-295-91 1-216-295-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/8W 1/8W 1/10W 1/10W 1/8W	R148 R149 R151 R152 R153	1-216-049-00 1-216-049-00 1-216-226-00 1-216-069-00 1-216-689-11	METAL GLAZE : METAL GLAZE : METAL GLAZE :	1K 5% 1K 5% 15K 5% 6.8K 5% 39K 5%	1/10W 1/10W 1/8W 1/10W 1/10W
JR128 JR129 JR130 JR131 JR132	1-216-295-91 1-216-295-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/8W 1/8W 1/8W	R154 R155 R156 R161 R162	1-216-057-00 1-216-057-00 1-216-037-00 1-216-079-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 5% 2.2K 5% 330 5% 18K 5% 6.8K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR133 JR134 JR135 JR136			1/8W 1/10W 1/8W 1/10W	R163 R164 R165 R166	1-216-689-11 1-216-057-00 1-216-057-00 1-216-037-00	METAL GLAZE	39K 5% 2.2K 5% 2.2K 5% 330 5%	1/10W 1/10W 1/10W 1/10W



REF.NO.	PART NO.	DESCRIPTION			REMARK		REF.NO.	F.NO. PART NO. DESCRIPTION		REMARK		
R167	1-216-073-00	METAL GLAZE	10K	5%	1/10W		C018 C019	1-164-505-11 1-124-916-11		20%	16V 50V	
R168 R169 R171 R177 R178	1-216-212-00 1-216-067-00 1-216-045-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 5.6K 680 100	5% 5% 5%	1/8W 1/10W 1/10W 1/10W		C020 C022 C023	1-163-117-00 1-164-004-11 1-164-004-11	CERAMIC CHIP 100PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	5% 10% 10%	50V 25V 25V	
R179 R180 R181	1-216-057-00 1-216-057-00 1-216-057-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C024 C025 C026 C032 C035	1-164-004-11 1-164-222-11 1-164-222-11 1-163-117-00 1-163-033-91	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 100PF	10% 5%	25V 25V 25V 50V 50V	
R182 R183	1-216-041-00 1-216-192-00	METAL GLAZE METAL GLAZE	470 560	5% 5%	1/10W 1/8W		C036 C037	1-164-005-11 1-163-117-00	CERAMIC CHIP 0.47MF	5%	25V 50V	
R184 R185 R191 R192	1-216-043-00 1-216-067-00 1-216-093-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 5.6K 68K 68K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C039 C042 C044	1-163-011-11 1-162-638-11 1-163-117-00	CERAMIC CHIP 0.0015MF CERAMIC CHIP 1MF	10% 5%	50V 16V 50V	
R193 R194 R195	1-216-065-00 1-216-049-00 1-216-216-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 5.6K	5% 5% 5%	1/10W 1/10W 1/8W		C522 C523 C524 C525	1-163-141-00 1-163-141-00 1-163-113-00 1-164-222-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 68PF CERAMIC CHIP 0.22MF	5% 5% 5 %	50V 50V 50V 25V	
R201 R202 R203	1-216-198-91 1-216-107-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 270K 10K	5% 5% 5 %	1/8W 1/10W 1/10W		C528 C529	1-163-105-00 1-163-169-00		5% 5%	50 v	
R204 R205 R206 R207	1-216-113-00 1-218-755-11 1-216-049-00 1-216-113-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	130K 1K	5% 0.50% 5%	1/10W 1/10W 1/10W 1/10W		C541 C542 C543 C544	1-164-232-11 1-163-037-11 1-164-161-11 1-164-161-11	CERAMIC CHIP 0.022MF CERAMIC CHIP 0.0022MF	10% 10% 10% 10%	50V 25V 50V 50V	
R208 R209	1-216-113-00 1-216-049-00	METAL GLAZE		5% 5%	1/10W 1/10W		C546 C547 C549	1-164-004-11 1-163-020-00 1-163-989-11	CERAMIC CHIP 0.0082MF	10% 10% 10%	25V 50V 25V	
R210 R211 R301	1-216-081-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K	5% 5% 5%	1/10W 1/10W 1/10W		C550 C559	1-163-141-00 1-164-004-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF	5% 10%	50V 25V	
R302 R303 R306 R308 R309	1-216-073-00 1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C560 C563 C564 C565 C566	1-164-161-11 1-163-031-11 1-163-031-11 1-163-031-11 1-163-031-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10%	50V 50V 50V 50V 50V	
R310	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE LIABLE RESISTOR	100	5% 5%	1/10W 1/10W		C567 C568 C569		CERAMIC CHIP 0.001MF	10% 10%	50V 50V	
RV111 RV112	1-241-786-11	RES, ADJ, CAR RES, ADJ, CAR	BON 22K	7			C570 C571	4 4 6 4 4 4 4 4 4	CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.33MF CERAMIC CHIP 0.1MF	10% 10%	50V 16V 25V	
		NSFORMER >					C2001 C2002 C2004	1-163-235-11	CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 0.22MF	5% 5%	50V 50V 25V	
T111	1-403-686-22 *****		*****	*****	*****	*****	C2005 C2008	1-163-038-91	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF		25V 25V	
	*A-1635-029-A	M2 BOARD, COM	PLETE ****				C2016 C2017 C2018 C2019	1-164-222-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 2.2MF ELECT 22MF	20%	25V 25V 16V	
C001		ACITOR >	10000				C2020	1-164-222-11	CERAMIC CHIP 0.22MF	40%	50V 25V	
C004 C007 C008 C010	1-164-222-11 1-163-117-00 1-163-117-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.22MF 100PF 100PF		5% 5%	50V 25V 50V 50V 50V	C2021 C2024 C2025 C2027	1-163-117-00 1-163-117-00	CERAMIC CHIP 68PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 0.22MF	5% 5% 5%	50V 50V 50V 25V	
C011		CERAMIC CHIP			-	50V	< FILTER >					
C012 C014 C016	1-163-117-00 1-163-141-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 0.001MF		i% i%	50V 50V 50V	CD001		VIBRATOR, CERAMIC NECTOR >			
C017	1-164-222-11	CERAMIC CHIP	U.22MF			25V	CN1413	1-695-301-11	CONNECTOR, BOARD TO BO	ARD 40P		



											_
REF.NO.	PART NO.	DESCRIPTION	<u> </u>	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REM	AR
CN1426	*1-568-881-51	PIN, CONNECTOR	R 6P		R020	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
CN1432	*1-568-882-51	PIN, CONNECTOR	R 7P		R021	1-216-065-00	METAL GLAZE	4.7K		1/10W	
CN1435	*1-568-881-51	PIN, CONNECTOR	R 6P		R022	1-216-057-00	METAL GLAZE	2.2K		1/10W	
	a DTO	יחד -			R023	1-216-025-00	METAL GLAZE	100	5%	1/10W	
	< D10	, au			R024	1-216-025-00	METAL GLAZE	100	5%	1/10W	
D001	8-719-027-82	DIODE MA3039H			R025	1-216-049-00	METAL GLAZE	1 K	5%	1/10W	
D2001	8-719-036-58	DIODE MA3030-F	I		R026	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
D2003 D2007	8-719-914-44	DIODE DAP202K			R027 R028	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
D2001	0-/13-314-44	DIODE DAPAULK			R030	1-216-677-11 1-216-049-00	METAL CHIP	12K 1K	0.50% 5%	1/10W	
	< IC	>							370		
70001	0 850 004 04	TG	\ama		R032	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
IC001 IC002	8-759-294-04	IC SDA3UC163-2	AGEG		R033 R034	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
10002	1-750-797-11	SOCKET PLCC	TC002		R035	1-216-057-00 1-216-057-00	METAL GLAZE	2.2K 2.2K		1/10W 1/10W	
IC561	8-752-347-92	IC CXD2018Q	10002		R038	1-216-073-00		10K	5%	1/10W	
IC562	8-759-998-98	IC LM358D									
IC563	9_759_991_41	TC 1M79105307			R049 R050	1-216-049-00 1-216-073-00		1K 10K	5% 5%	1/10W	
IC2002	8-759-262-58	TC CDAS273D_C2	22_CEC		R051	1-216-073-00	METAL GLAZE	22K	5%	1/10W 1/10W	
IC2003	8-759-188-60	IC MB81C4256A-	-70PSZG		R052	1-216-073-00		10K	5%	1/10W	
		_			R053	1-216-065-00		4.7K		1/10W	
	< COI	L >			R054	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
L001	1-408-421-00	INDUCTOR	100UH		R055	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
L561	1-408-409-00	INDUCTOR	10UH		R060	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
L562	1-408-409-00	INDUCTOR	10UH		R067	1-216-043-91		560	5%	1/10W	
L563 L2001	1-408-947-00	INDUCTOR	2.2MMH		R068	1-216-043-91	METAL GLAZE	560	5%	1/10W	
12001	1-410-0/4-31	INDUCTOR	02011		R069	1-216-037-00	METAL GLAZE	330	5%	1/10W	
	< TRA	NSISTOR >			R071	1-216-198-91		1K	5%	1/8W	
0000	0 700 016 00	MDANGEGROD OG	1100 0		R535	1-216-057-00		2.2K		1/10W	
Q002 Q003	8-729-216-22	TRANSISTOR 2SA	A1102-G		R536 R538	1-216-057-00 1-216-025-00	METAL GLAZE	2.2K 100	5% 5%	1/10W 1/10W	
Q564	8-729-216-22	TRANSISTOR 257	A1162-G		K336	1-210-023-00	METAL GLAZE	100	20	1/10#	
Q565	8-729-920-74	TRANSISTOR 2SO	C2412K-QR		R539	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W	
Q566	8-729-920-74	TRANSISTOR 2SC	C2412K-QR		R541	1-216-049-00		1K	5%	1/10W	
0567	0 700 001 01	MD311/JEJJMOD DM	24.4422		R542	1-216-025-00		100	5%	1/10W	
Q567 Q2001	0-729-901-01	TRANSISTOR DIG	21445K		R544 R545	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
Q2001	8-729-920-74	TRANSISTOR 250	22412K-QR		K545	1-216-033-00	METAL GLAZE	220	5%	1/10W	
Q2003	8-729-216-22	TRANSISTOR 25	A1162-G		R546	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
Q2004	8-729-920-74	TRANSISTOR 2SO	C2412K-QR		R547	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	
	0 700 000 74		-0.440		R551	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
Q2005 Q2006	8-729-920-74	TRANSISTOR 2SO	C2412K-QR		R552	1-216-097-00		100K		1/10W	
Q2008	8-729-901-00	TRANSISTOR DTO	C124EK		R553	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
					R559	1-216-049-00		1K	5%	1/10W	
	< RES	SISTOR >			R560	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
JR551	1-216-295-91	METAL CLASE	0 5%	1/10W	R564 R565	1-216-091-00 1-216-065-00	METAL GLAZE METAL GLAZE	56K	5%	1/10W	
JR553	1-216-295-91		0 5%	1/10W 1/10W	R566	1-216-073-00		4.7K 10K	5% 5%	1/10W 1/10W	
JR557	1-216-295-91		0 5%	1/10W					3.0	1/ 1011	
2001	1 016 005 00		400 =0	4 44 000	R567	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R001 R002	1-216-025-00 1-216-025-00		100 5% 100 5%	1/10W 1/10W	R568 R570	1-216-109-00 1-216-049-00	METAL GLAZE METAL GLAZE	330K	5%	1/10W	
R003	1-216-025-00		1K 5%	1/10W 1/10W	R571	1-216-073-00	METAL GLAZE	1K 10K	5% 5%	1/10W 1/10W	
R004	1-216-049-00		1K 5%	1/10W	R2001	1-216-065-00		4.7K		1/10W	
R005	1-216-295-91	METAL GLAZE	0 5%	1/10W							
R007	1-216-073-00	MRTAL CLATE	10K 5%	1/10W	R2002 R2003	1-216-043-91 1-216-065-00	METAL GLAZE	560	5% 5%	1/10W	
R008	1-216-073-00		10K 5%	1/10W 1/10W	R2003	1-216-037-00	METAL GLAZE METAL GLAZE	4.7K 330	5% 5 %	1/10W 1/10W	
R010	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R2005	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R011	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R2007	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R012	1-216-049-00	METAL GLAZE	1K 5%	1/10W							
R014	1-216-049-00	METAL GLAZE	1K 5%	1/10W	R2008 R2009	1-216-025-00 1-216-057-00	METAL GLAZE METAL GLAZE	100 2.2K	5% 5%	1/10W 1/10W	
R014	1-216-045-00		680 5%	1/10W 1/10W	R2010	1-216-037-00	METAL GLAZE	2.2K 100	5% 5%	1/10W 1/10W	
R017	1-216-049-00		1K 5%	1/10W	R2011	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R018	1-216-041-00	METAL GLAZE	470 5%	1/10W	R2012	1-216-631-11		150		1/10W	
R019	1-216-025-00	METAL GLAZE	100 5%	1/10W							



REF.NO.	PART NO.	DESCRIPTION	ON		REMARK	REF.NO.	PART NO.	DESCRIPTI	REMARK					
R2013 R2014 R2017 R2018 R2019	1-216-631-11 1-216-631-11 1-216-081-00 1-216-081-00 1-216-081-00	METAL CHIP METAL GLAZE METAL GLAZE		0% 1/10 0% 1/10 1/10 1/10 1/10	W W W	C662 C663 C664 C665	1-126-943-11 1-126-943-11 1-126-943-11 1-126-943-11	ELECT ELECT	2200MF 2200MF 2200MF 2200MF	20% 20% 20% 20%	25V 25V 25V 25V			
R2020 R2021 R2022	1-216-057-00 1-216-057-00 1-216-033-00	METAL GLAZE METAL GLAZE	2.2K 5% 2.2K 5% 2.20 5%	1/10 1/10 1/10	W W	C666 C667	1-126-943-11 1-126-943-11 1-124-907-11	ELECT ELECT	2200MF 2200MF	20% 20% 20%	25V 25V 25V			
R2023 R2025 R2026	1-216-025-00 1-216-063-00 1-216-065-00	METAL GLAZE METAL GLAZE	100 5% 3.9K 5%	1/10 1/10 1/10	W W	C670 C671 C672 C673	1-102-002-00 1-102-002-00 1-102-002-00 1-102-002-00	CERAMIC CERAMIC CERAMIC	680PF 680PF 680PF 680PF	10% 10% 10% 10%	500V 500V 500V 500V			
R2030 R2032 R2036 R2037	1-216-295-91 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 1K 5% 1K 5% 1K 5%	1/10 1/10 1/10 1/10	W W W	C674 C675 C680	1-124-480-11 1-124-907-11 1-124-478-11	ELECT ELECT ELECT	470MF 10MF 100MF	20% 20% 20%	25V 50V 25V			
R2039 R2040	1-216-041-00 1-216-055-00	METAL GLAZE METAL GLAZE	470 5% 1.8K 5%	1/10 1/10		C681 C1802	1-124-910-11 1-162-599-12	CERAMIC	47MF 0.0047MF	20% 20%	50V 400V			
	< CR	(STAL >				C1803 C1804	1-162-599-12 1-125-555-11	ELECT	0.00 47MF 330MF	20% 20%	400V 400V			
X2001	1-579-965-21	VIBRATOR, CR	RYSTAL				1-162-578-51		0.0047MF 0.0047MF	20% 20%	400V 400V			
*****	******	******	******	*****	******		1-136-519-12		0.47MF	20%	300V			
	*A-1637-002-A	G BOARD, COM	PLETE			C1817 A C1820 C1821	1-136-519-12 1-162-599-12 1-162-599-12	CERAMIC	0.47MF 0.0047MF 0.0047MF	20% 20% 20%	300V 400V 400V			
	< CAI	PACITOR >				< CONNECTOR >								
C600 C601 C605 C608 C611	1-125-497-11 1-130-202-00 1-124-910-11 1-124-903-11 1-102-002-00	ELECT ELECT	100MF 0.022MF 47MF 1MF 680PF	20% 10% 20% 20% 10%	400V 400V 50V 50V 500V	CN1605 CN1627 CN1628 CN1652 CN1653	*1-568-879-11 *1-564-512-11 *1-568-882-51 1-564-511-11 *1-568-879-11	PLUG, CONNECTION, CONNECTION, CONNECTION	CTOR 9P TOR 7P CTOR 8P					
C612 C613 C617 C618 C619	1-130-481-00 1-129-722-00 1-162-116-00 1-162-115-00 1-102-002-00	FILM CERAMIC CERAMIC	0.0068MF 0.047MF 680PF 330PF 680PF	5% 10% 10% 10% 10%	50V 630V 2KV 2KV 500V	CN1654 CN1655 CN1656 CN1661 CN1857	1-508-786-00 1-508-786-00 1-695-915-11	PIN, CONNECTOR (PC BOARD) 5P PIN, CONNECTOR (5MM PITCH) 2P PIN, CONNECTOR (5MM PITCH) 2P TAB (CONTACT) PIN, CONNECTOR (5MM PITCH) 2P						
C620 C621 C622 C623 C624	1-130-772-00 1-124-347-00 1-124-347-00 1-126-800-51 1-124-347-00	ELECT ELECT ELECT	0.22MF 100MF 100MF 2200MF 100MF	5% 20% 20% 20% 20%	63V 160V 160V 25V 160V	CN1859 !	*1-580-689-11 *1-580-689-11 *1-580-689-11 1-508-784-00	PIN, CONNECTION, CONNECTION, CONNECTION, CONNECTION, CONNECTION	TOR (PC BOAR TOR (PC BOAR	D) 4P				
C625	1-126-183-11		1000MF	20%	16V		< DIC							
C626 C627 C628 C629	1-126-800-51 1-137-365-11 1-124-910-11 1-124-907-11	FILM ELECT	2200MF 0.0015MF 47MF 10MF	20% 5% 20% 20%	25V 50V 50V 50V	D602 D603 D604	8-719-302-43 8-719-029-04 *4-389-343-11 8-719-029-04 *4-389-343-11	DIODE D5L60 SPRING, IC DIODE D5L60	; D603					
C632 C633 C636 C640 C643	1-137-372-11 1-137-419-11 1-130-777-00 1-124-916-11 1-162-116-00	FILM FILM ELECT	0.022MF 0.033MF 0.1MF 22MF 680PF	5% 5% 5% 20% 10%	50V 63V 63V 50V 2KV	D606 D608 D610	8-719-302-43 8-719-300-33 8-719-970-39 *4-389-343-11	DIODE EL1Z DIODE RU-3AI DIODE ESAC9	M 2M-02					
C650 C651 C653 C654 C655	1-102-002-00 1-124-480-11 1-124-478-11 1-124-907-11 1-124-120-11	ELECT ELECT ELECT	680PF 470MF 100MF 10MF 220MF	10% 20% 20% 20% 20%	500V 25V 25V 50V 16V	D611 D612 D613	8-719-510-41 *4-389-343-11 8-719-510-09 *4-389-343-11 8-719-300-33	SPRING, IC DIODE D10SC SPRING, IC	; D611 6M ; D612					
C658 C659 C660 C661	1-126-943-11 1-124-478-11 1-126-943-11 1-124-478-11	ELECT ELECT ELECT	2200MF 100MF 2200MF 100MF	20% 20% 20% 20%	25V 25V 25V 25V	D614 D615 D616	8-719-510-41 *4-389-343-11 8-719-975-76 8-719-923-78	DIODE D10SC SPRING, IC DIODE SB140	9M ; D614					

shading and marked ! are critical for safety.
Replace only with the part number specified.



D617 8-719-110-03 DIODE RD7.5ESB2 D619 8-719-975-76 DIODE SB140 Q601 8-72 D620 8-719-901-33 DIODE 1SS133 4-20 Mathematical Series of S	<pre>< TRANSISTOR > 29-016-14 TRANSIST 00-001-11 HOLDER, 01-023-11 SPACER, 29-119-78 TRANSIST 29-209-15 TRANSIST 29-209-15 TRANSIST 29-219-78 TRANSIST 29-119-78 TRANSIST 29-119-78 TRANSIST 29-119-78 TRANSIST</pre>	TOR BUZ91A-E3155 IC; Q601 INSULATING; Q601 FOR 2SC2785-HFE FOR DTA144ES FOR 2SD2012 IC; Q614 FOR 2SC2785-HFE FOR 2SC2785-HFE FOR 2SC2785-HFE FOR 2SC2785-HFE FOR 2SC2785-HFE FOR 2SC2785-HFE	1W F 1/4W 1/2W 1/4W 1/4W
D619 8-719-975-76 DIODE SB140 Q601 8-72 D620 8-719-901-33 DIODE 1SS133 4-20 D621 8-719-510-41 DIODE DIOSC9M Q611 8-72 D622 8-719-510-41 DIODE DIOSC9M *4-389-343-11 SPRING, IC; D621 Q612 8-72 D622 8-719-910-31 DIODE DIOSC9M *4-389-343-11 SPRING, IC; D622 Q614 8-72 D623 8-719-901-33 DIODE 1SS133 Q618 8-72 D638 8-719-901-33 DIODE 1SS133 Q620 8-72 D638 8-719-901-33 DIODE 1SS133 Q620 8-72 D650 8-719-908-03 DIODE GP08D D653 8-719-908-03 DIODE GP08D D654 8-719-908-03 DIODE GP08D D655 8-719-908-03 DIODE GP08D D656 8-719-908-03 DIODE GP08D D657 8-719-908-03 DIODE GP08D D658 8-719-908-03 DIODE GP08D D657 8-719-908-03 DIODE GP08D D658 8-719-908-03 DIODE GP08D D659 R601 1-21 D658 8-719-908-03 DIODE GP08D D650 R601 1-21 D658 8-719-908-03 DIODE GP08D D650 R601 1-21 D651 R602 1-24	29-016-14 TRANSIST 00-001-11 HOLDER, 11-023-11 SPACER, 29-119-78 TRANSIST 29-209-15 TRANSIST 29-343-11 SPRING, 29-119-78 TRANSIST 29-119-78 TRANSIST 29-119-78 TRANSIST 29-119-76 TRANSIST 29-119-76 TRANSIST 29-378-84 TRANSIST < RESISTOR > 16-353-00 METAL OX 19-425-11 CARBON 14-921-00 CARBON 14-921-00 CARBON 14-921-01 CARBON 14-9423-11 CARBON 149-409-11 CARBON 149-423-11 CARBON 149-392-11 CARBON 149-392-11 CARBON 15-926-51 METAL OX 149-392-11 CARBON 15-926-51 METAL OX 149-392-11 CARBON 15-926-51 METAL OX 149-392-11 CARBON	TOR BUZ91A-E3155 IC; Q601 INSULATING; Q601 FOR 2SC2785-HFE FOR DTA144ES FOR 2SD2012 IC; Q614 FOR 2SC2785-HFE	1W F 1/4W 1/2W 1/4W
D620 8-719-901-33 DIODE ISS133 4-20 D621 8-719-510-41 DIODE DIOSC9M 4-389-343-11 SPRING, IC; D621 Q611 8-72 D622 8-719-510-41 DIODE DIOSC9M *4-389-343-11 SPRING, IC; D622 Q614 8-72 D623 8-719-901-33 DIODE ISS133 Q618 8-72 D634 8-719-901-33 DIODE ISS133 Q618 8-72 D638 8-719-901-33 DIODE ISS133 Q620 8-72 D639 8-719-908-03 DIODE GP08D Q621 8-72 D650 8-719-908-03 DIODE GP08D Q623 8-72 D654 8-719-908-03 DIODE GP08D Q629 8-72 D655 8-719-908-03 DIODE GP08D Q629 8-72 D656 8-719-908-03 DIODE GP08D R601 1-21 D657 8-719-908-03 DIODE GP08D R601 1-21 D658 8-719-908-03 DIODE GP08D R601 1-21 D658 8-719-908-03 DIODE GP08D R602 1-24	00-001-11 HOLDER, 01-023-11 SPACER, 29-119-78 TRANSIST 29-900-65 TRANSIST 39-343-11 SPRING, 29-119-78 TRANSIST 29-119-78 TRANSIST 29-119-78 TRANSIST 29-119-78 TRANSIST 29-119-76 TRANSIST 29-13-78 TRANSIST 29-13-78 TRANSIST 29-13-78 TRANSIST 29-142-71 CARBON 49-425-11 CARBON 49-392-11 CARBON 49-409-11 CARBON 49-409-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-392-11 CARBON 49-392-11 CARBON	IC ; Q601 INSULATING ; Q601 FOR 2SC2785-HFE FOR DTA144ES FOR 2SD2012 IC ; Q614 FOR 2SC2785-HFE FOR 2SC2785-HF	1W F 1/4W 1/2W 1/4W
D622 8-719-510-41 DIODE D10SC9M *4-389-343-11 SPRING, IC; D622 Q614 8-72 D623 8-719-901-33 DIODE 1SS133 *4-38 D634 8-719-901-33 DIODE 1SS133 Q618 8-72 D638 8-719-901-33 DIODE 1SS133 Q620 8-72 D650 8-719-908-03 DIODE GP08D Q621 8-72 D653 8-719-908-03 DIODE GP08D Q623 8-72 D654 8-719-908-03 DIODE GP08D Q629 8-72 D655 8-719-908-03 DIODE GP08D R602 8-72 D656 8-719-908-03 DIODE GP08D R601 1-21 D658 8-719-908-03 DIODE GP08D R601 1-21 D658 8-719-908-03 DIODE GP08D R602 1-24	29-209-15 TRANSIST 39-343-11 SPRING, 29-119-78 TRANSIST 29-119-78 TRANSIST 29-119-76 TRANSIST 29-378-84 TRANSIST < RESISTOR > (RESISTOR > 16-353-00 METAL OX 49-425-11 CARBON 49-392-11 CARBON 49-409-11 CARBON 49-409-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-392-11 CARBON 49-392-11 CARBON	TOR 2SD2012 TC; Q614 TOR 2SC2785-HFE TOR 2SC2785-HFE TOR 2SC2785-HFE TOR 2SA1175-HFE TOR 2SD788-5 XIDE 2.2 5% 4.7K 5% 220K 5% 8.2 5% 220 5%	1/4W 1/2W 1/4W
D650 8-719-908-03 DIODE GP08D D653 8-719-908-03 DIODE GP08D D654 8-719-908-03 DIODE GP08D D655 8-719-908-03 DIODE GP08D D656 8-719-908-03 DIODE GP08D D657 8-719-908-03 DIODE GP08D D658 8-719-908-03 DIODE GP08D D658 8-719-908-03 DIODE GP08D R601 1-21 D658 8-719-908-03 DIODE GP08D R602 1-24	29-119-76 TRANSIST 29-378-84 TRANSIST < RESISTOR > 16-353-00 METAL OX 49-425-11 CARBON 14-921-00 CARBON 49-392-11 CARBON 49-409-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-423-11 CARBON 49-392-11 CARBON 49-392-11 CARBON	TOR 2SA1175-HFE TOR 2SD788-5 XIDE 2.2 5% 4.7K 5% 220K 5% 8.2 5% 220 5%	1/4W 1/2W 1/4W
D658 8-719-908-03 DIODE GP08D R602 1-24	49-425-11 CARBON 14-921-00 CARBON 49-392-11 CARBON 49-409-11 CARBON 49-423-11 CARBON 15-926-51 METAL OX 49-392-11 CARBON	4.7K 5% 220K 5% 8.2 5% 220 5%	1/4W 1/2W 1/4W
D660 8-719-923-78 DIODE MTZJ-12 R605 1-24	15-926-51 METAL 02 49-392-11 CARBON	3.3K 5%	
	49-392-11 CARBON		1/4W
1-576-232-21 FUSE (H.B.C.) 5A/250V R609 1-24		8.2 5% 120K 5%	3W F 1/4W 1/4W
	47-739-11 CARBON	100 5%	1/2W
FB612 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH R613 1-24 FB622 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH R614 1-21	47-897-11 CARBON 47-893-11 CARBON 16-485-11 METAL ON 16-485-11 METAL ON		1/4W 1/4W 3W F 3W F
	16-485-11 METAL OF		3W F
IC602 8-759-908-15 IC TL431CLP R619 1-21 IC603 8-749-923-44 IC SFH617G-1 R620 1-24 IC605 8-759-708-05 IC NJM78L05A R621 1-21	49-409-11 CARBON 16-444-11 METAL OX 49-415-11 CARBON 15-431-00 METAL 49-413-11 CARBON	220 5% XIDE 82K 5% 680 5% 2.7K 1% 470 5%	1/4W 1W F 1/4W 1/4W 1/4W
< COIL >			
L601 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH R626 1-21 L602 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH R628 1-24 L603 1-459-862-11 COIL, CHOKE 90UH R629 1-21	49-429-11 CARBON 15-405-00 METAL 49-410-11 CARBON 15-460-00 METAL 49-409-11 CARBON	10K 5% 220 1% 270 5% 43K 1% 220 5%	1/4W 1/4W 1/4W F 1/4W 1/4W
L609 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH R634 1-21 L610 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH R635 1-24 L611 1-412-540-31 INDUCTOR 180UH R636 1-21 L621 1-412-533-21 INDUCTOR 47UH R637 1-24 L622 1-412-533-21 INDUCTOR 47UH	49-415-11 CARBON 15-477-00 METAL 47-863-91 CARBON 15-890-11 METAL OX 47-895-00 CARBON	680 5% 220K 1% 22K 5% XIDE 470 5% 470K 5%	1/4W 1/4W 1/4W 2W F 1/4W
L623 1-412-533-21 INDUCTOR 47UH R639 1-24	49-429-11 CARBON 49-423-11 CARBON	10K 5% 3.3K 5%	1/4W 1/4W
< LINE FILTER > R642 1-24	16-362-11 METAL O 49-423-11 CARBON	3.3K 5%	2W F 1/4W
LF1801 + 1-424-436-11 TRANSFORMER, LINE FILTER	49-377-11 CARBON	0.47 5%	1/4W F
LF1803 1-424-436-11 TRANSFORMER, LINE FILTER R645 1-21 R649 1-24	49-425-11 CARBON 15-467-00 METAL 49-424-11 CARBON 49-426-11 CARBON	4.7K 5% 82K 1% 3.9K 5% 5.6K 5%	1/4W 1/4W 1/4W 1/4W
	49-414-11 CARBON	560 5%	1/4W F
R660 1-24 R687 1-24 R691 1-24 R694 1-24	49-413-11 CARBON 49-417-11 CARBON 49-429-11 CARBON 49-421-11 CARBON 49-382-11 CARBON	470 5% 1K 5% 10K 5% 2.2K 5% 1.2 5%	1/4W 1/4W F 1/4W 1/4W 1/4W F

G CR CB

shading and marked + are critical for safety.

Replace only with	the	part	number
specified.			

			_									
REF.NO.	PART NO.	DESCRIPTI	ON		REMARK	REF.NO.	PART NO.	DESCRIPTION	N			REMARK
R1801	1-260-132-11	CARBON	560K 5%	1/2W			< NEC	N LAMP >				
R1806 R1807 R1808 R1809	1-205-949-11 1-205-949-11 1-244-945-91 1-218-265-11	WIREWOUND CARBON	1.8 5% 1.8 5% 1M 5% 8.2M 5%	10W 10W 1/2W	は、「中華」 ・ 京 一年 ・ 京 一年 ・ 京 一年 ・ 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	NL702	1-519-237-14	LAMP, NEON				
				1W		1	< TRA	NSISTOR >				
R1811	1-205-949-11	WIREWOUND	1.8 5% 1.8 5%	10W 10W	2	Q701 Q702 Q703	8-729-119-78 8-729-119-78 8-729-119-80	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785- SC2688-	HFE LK		
	< VAF	RIABLE RESIST	OR >				4-373-933-01 4-382-854-11	SHEET (TRANS SCREW (M3X10				
RV601	1-241-628-11	RES, ADJ, C	ARBON 2.2K								1 2103	
	< REI	AY >				Q704 Q705	8-729-255-12 8-729-200-17	TRANSISTOR 2 TRANSISTOR 2		_		
5 ₹601	1-755-032-11	DELAY 3				Q706	8-729-200-17	TRANSISTOR 2				
WIOOT	.1. 1-755-052-11	RELAI					< RES	SISTOR >				
	< TRA	INSFORMER >				R701	1-202-847-00	SOLID	560K	200	1/2W	
	1-426-954-11	TRANSFORMER	, CONVERTER			R702	1-202-814-11	SOLID	33K	20%	1/2W	
1602	1-426-953-11 1-426-955-11	TRANSFORMER	, CONVERTER			R704	1-202-842-11	SOLID	220K	20%	1/2W	
T603 T604	1-426-955-11	TRANSFORMER	, POWER			R705 R706	1-202-828-11 1-202-561-00	SOLID SOLID	6.8K 330	20% 5%	1/2W 1/2W	
*****	******	*******	******	******	******	R707	1-216-510-11	METAL OXIDE	8.2K	5%	5W	F
						R708	1-249-405-11	CARBON	100	5%	1/4W	F
	*A-1638-049-A	CR BOARD, C	OMPLETE			R709 R710	1-249-405-11	CARBON	100	5%	1/4W	
						R710 R711	1-215-927-00 1-249-405-11	METAL OXIDE CARBON	47K 100	5% 5%	3W 1/4W	F F
	< CAF	PACITOR >				R712	1-249-421-11	CARBON	ישר פ	5%	1/4W	79
701	1-162-115-00	CERAMIC	330PF	10%	2KV	R714	1-249-421-11	CARBON	2.2K 47	5%	1/4W	r
702	1-123-948-00		22MF	20%	250V	R716	1-247-807-31	CARBON	100	5%	1/4W	
2703 2704	1-102-050-00 1-162-115-00	CERAMIC CERAMIC	0.01MF 330PF	99% 10%	500V 2KV	R717 R718	1-249-399-11 1-249-412-11	CARBON CARBON	33 390	5% 5%	1/4W 1/4W	
705	1-130-479-00		0.0047MF	5%	50V							
2706	1-101-006-00	CERAMIC	0.047MF		50V	R719 R720	1-247-811-31 1-247-807-31	CARBON CARBON	150 100	5% 5%	1/4W 1/4W	
2707	1-101-006-00	CERAMIC	0.047MF		50V	R721	1-249-409-11	CARBON	220	5%	1/4W	
C709	1-124-120-11		220MF	20%	16V	R722	1-215-423-00	METAL	1.2K	1%	1/4W	
C710 C711	1-124-120-11 1-102-114-00	ELECT CERAMIC	220MF 470PF	20% 10%	16V 50V	R724	1-215-429-00	METAL	2.2K	1%	1/4W	
	< CON	INECTOR >					< VAR	HABLE RESISTO	R >			
CR1	1-508-784-00	PIN. CONNEC	TOR (SMM PIT	CH) 1D		RV701	1-249-410-11	CARBON	270	5%	1/4W	
CR3 CR4	1-508-765-00 1-564-511-11	PIN, CONNEC	TOR (5MM PIT	/			< SPA	RK GAP >				
CR15	*1-568-880-51					SG702	1-519-422-11	GAP, SPARK				
	< CRI	SOCKET >				*****	******	******	*****	****	*****	*****
The server of th	4-2 51-179-11	SOCKET, CRT		7	在中国的人工作品		*A-1638-050-A	CB BOARD, CO				
	< DIC	DDE >							*****			
D701	8-719-901-33	DIODE 1SS13	3				< CAP	ACITOR >				
D702	8-719-901-33		-			C761	1-162-115-00		330PF		10%	2KV
D703 D704	8-719-901-33 8-719-901-33					C762 C763	1-123-948-00 1-102-050-00	ELECT CERAMIC	22MF 0.01MF		20% 99%	250V 500V
D705	8-719-901-33					C764	1-162-115-00	CERAMIC	330PF		10%	2KV
D706	8-719-901-33	חדמחת 19912	3			C765	1-130-479-00	MYLAR	0.0047	MF	5%	50V
D700 D707	8-719-901-33					C766	1-101-006-00	CERAMIC	0.047M	F		50V
						C767	1-101-006-00	CERAMIC	0.047M			50V
	< CO1	т >				C769 C770	1-124-120-11 1-124-120-11	ELECT ELECT	220MF 220MF		20% 20%	16V 16V
L701	1-408-429-00		470UH			C771	1-102-114-00	CERAMIC	470PF		10%	50V
L702 L703	1-408-159-00 1-408-159-00							NIECTOR -				
L704	1-408-413-00		22UH			< CUM	NECTOR >					

1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P

Replace only with the part number specified.



											CD		
REF.NO.	PART NO.	DESCRIPTION	<u>N</u>			REMAR	K	REF.NO.	PART NO.	DESCRIPTION	ON		REMAR
CB3 CB4 CB5	1-564-511-11	PIN, CONNECTO PLUG, CONNECT PLUG, CONNECT	OR 8P	PITCE	I) 3P			SG762	< SPA	RK GAP >			
CB17		PIN, CONNECTO						******		*****	*******		
0D#7.61		SOCKET >							*A-1638-051-A	CG BOARD, CO	MPLETE		
CRT/61 !	1-251-179-11	SOCKET, CR		2.6						*******	*****		
	< DIC	DE >							< CAF	ACITOR >			
D761 D762 D763 D764 D765	8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133						C731 C732 C733 C734 C735	1-162-115-00 1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00	ELECT CERAMIC CERAMIC	330PF 22MF 0.01MF 330PF 0.0047MF	10% 20% 99% 10% 5%	2KV 250V 500V 2KV 50V
D766 D768		DIODE 1SS133 DIODE 1SS133						C736 C737 C739	1-101-006-00 1-101-006-00 1-124-120-11	CERAMIC	0.047MF 0.047MF 220MF	20%	50V 50V 16V
	< COI	L >						C740 C741	1-124-120-11	ELECT	220MF	20%	16V
L761 L762	1-408-429-00		4700					C/41	1-102-114-00		470PF	10%	50V
L763	1-408-159-00	COIL, SPOOK C	HOKE 3	.3UH						NECTOR >			
L764	1-408-413-00 < NEC	INDUCTOR ON LAMP >	22UH					CG1 CG3 CG16	1-508-784-00 1-508-765-00 *1-568-880-51	PIN, CONNECT	OR (5MM PIT	CH) 1P CH) 3P	
NL762	1-519-237-14	LAMP, NEON							< CRT	SOCKET >			
	< TRA	NSISTOR >							1-251-179-11	SOCKET, CRT		# T-4F-12	
0761	8-729-119-78	TRANSISTOR 2S	C2785-	HFE					< DIO	DE >			
Q762 Q763	8-729-119-80 4-373-933-01	TRANSISTOR 2S TRANSISTOR 2S SHEET (TRANSI SCREW (M3X10)	C2688- STOR),	LK BN ;		8		D731 D732 D733 D734	8-719-901-33 8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133			
Q764 Q765 Q766	8-729-200-17	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1091-	0				D735	8-719-901-33 8-719-901-33	DIODE 1SS133			
	< RES	SISTOR >						D737	8-719-901-33				
R761	1-202-847-00		E C O W	2.00	1 /014				< COI	L >			
R762 R764 R765 R766	1-202-844-11 1-202-842-11 1-202-828-11 1-202-561-00	SOLID SOLID SOLID	33K 220K 6.8K 330	20%	1/2W 1/2W 1/2W 1/2W 1/2W			L731 L732 L733 L734	1-408-429-00 1-408-159-00 1-408-159-00 1-408-413-00	COIL, SPOOK			
R767	1-216-510-11		8.2K		5W	F			< NEC	N LAMP >			
R768 R769 R770	1-249-405-11 1-249-405-11 1-215-927-00	CARBON METAL OXIDE	100 100 47K	5% 5% 5%	1/4W 1/4W 3W	F		NL732	1-519-237-14	LAMP, NEON			
R771	1-249-405-11	CARBON	100	5%	1/4W	F			< TRA	NSISTOR >			•
R772 R774 R776 R777 R778	1-249-421-11 1-249-401-11 1-247-807-31 1-249-399-11 1-249-412-11	CARBON CARBON CARBON	2.2K 47 100 33 390	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F		Q731 Q732 Q733	8-729-119-78 8-729-119-78 8-729-119-80 4-373-933-01 4-382-854-11		SC2785-HFE SC2688-LK ISTOR), BN	; Q733) ; Q7:	33
R779 R780 R781 R782 R783	1-249-415-11 1-247-807-31 1-249-409-11 1-215-423-00 1-215-433-00	CARBON CARBON METAL	680 100 220 1.2K 3.3K		1/4W 1/4W 1/4W 1/4W 1/4W			Q734 Q735 Q736	8-729-255-12 8-729-200-17 8-729-200-17	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1091-0		
R784 R785	1-215-429-00 1-215-418-00	METAL	2.2K 750		1/4W 1/4W			R731 R732 R734	1-202-847-00 1-202-814-11 1-202-842-11	SOLID SOLID	560K 20% 33K 20% 220K 20%	1/20 1/20 1/20	Ñ

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REF.NO.	F.NO. PART NO. DESCRIPTION					REF.NO.	PART NO.	DESCRIPT		REMARK		
R735 R736	1-202-828-11 1-202-561-00	SOLID SOLID	6.8K 209 330 5%	1/2W 1/2W		C903 C904 C905	1-130-471-00 1-130-471-00 1-124-477-11	MYLAR MYLAR ELECT	0.001MF 0.001MF 47MF	5% 5% 20%	50V 50V 16V	
R737 R738 R739 R740 R741	1-216-510-11 1-249-405-11 1-249-405-11 1-215-927-00 1-249-405-11	CARBON CARBON METAL OXIDE	8.2K 5% 100 5% 100 5% 47K 5% 100 5%	5W 1/4W 1/4W 3W 1/4W	F F	C906 C907 C908 C910	1-126-233-11 1-126-101-11 1-124-907-11 1-130-483-00 1-131-341-00	ELECT ELECT ELECT	22MF 100MF 10MF 0.01MF	20% 20% 20% 5% 20%	50V 16V 50V 50V	
R742 R744 R745 R746 R747	1-249-421-11 1-249-401-11 1-215-455-00 1-247-807-31 1-249-399-11	CARBON METAL CARBON	2.2K 5% 47 5% 27K 1% 100 5% 33 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C912 C913 C914 C915 C916	1-134-903-11 1-126-233-11 1-126-803-11 1-124-927-11 1-102-074-00	ELECT ELECT ELECT	1MF 22MF 47MF 4.7MF 0.001MF	20% 20% 20% 20% 10%	50V 50V 16V 50V 50V	
R748 R750 R751 R752 R754	1-249-412-11 1-247-807-31 1-249-409-11 1-215-423-00 1-215-429-00	CARBON	390 5% 100 5% 220 5% 1.2K 1% 2.2K 1%	1/4W 1/4W 1/4W 1/4W 1/4W		C917 C918 C919 C920 C921	1-130-471-00 1-102-963-00 1-102-963-00 1-102-963-00 1-102-963-00	MYLAR CERAMIC CERAMIC	0.001MF 33PF 33PF 33PF 33PF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	
R755 SG732	1-249-410-11 < SPA 1-519-422-11	ARK GAP >	270 5%	1/4W		C922 C923 C931 C932		CERAMIC CERAMIC CERAMIC	33PF 33PF 100PF 1MF	5% 5% 5% 20%	50V 50V 50V 50V	
******	******	********	********	*****	******	C934	1-126-233-11	ELECT	22MF	20%	25V	
	*1-650-883-11	DS BOARD				C935 C936 C937 C938 C939	1-126-233-11 1-126-233-11 1-126-233-11 1-126-233-11 1-126-233-11	ELECT ELECT ELECT	22MF 22MF 22MF 22MF 22MF	20% 20% 20% 20% 20%	25V 25V 25V 25V 25V	
C1841	1-126-233-11		22MF	20%	25V	C940						
21842	1-126-233-11 1-126-233-11 < DIC	ELECT	22MF	20%	25V 25V	C1701 C1702 C1703 C1704	1-126-233-11 1-124-907-11 1-124-907-11 1-124-907-11 1-124-667-11	ELECT ELECT ELECT	22MF 10MF 10MF 10MF 10MF	20% 20% 20% 20% 20%	25V 50V 50V 50V 50V	
01841 01842 01843 01844	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119				C1705 C1706 C1707 C1708	1-102-963-00 1-102-963-00 1-102-963-00 1-102-963-00	CERAMIC CERAMIC CERAMIC CERAMIC	33PF 33PF 33PF 33PF	5% 5% 5% 5%	50V 50V 50V 50V	
		INECTOR >				C1709	1-102-963-00	CERAMIC	33PF	5%	50V	
DS6 IC1801	1-691-182-11 < IC 8-759-183-37		OARD TO BOA	ARD) 12P		C1710 C1711 C1712 C1713 C1714	1-102-963-00 1-126-233-11 1-126-233-11 1-131-353-00 1-124-120-11	ELECT TANTALUM	33PF 22MF 22MF 10MF 220MF	5% 20% 20% 10% 20%	50V 50V 25V 25V 25V	
R1841 R1842 R1844	1-215-441-00 1-215-455-00 1-215-445-00	METAL METAL	6.8K 1% 27K 1% 10K 1%	1/4W 1/4W 1/4W		C1715 C1716 C1717 C1718 C1719	1-124-478-11 1-126-803-11 1-126-803-11 1-131-353-00 1-126-233-11	ELECT ELECT TANTALUM	100MF 47MF 47MF 10MF 22MF	20% 20% 20% 10% 20%	25V 25V 25V 25V 25V	
R1850 R1851 ******	1-215-429-00 1-215-421-00 ***********************************	METAL		1/4W 1/4W		C1720 C1721 C1722 C1724	1-130-491-00 1-130-491-00 1-130-491-00 1-126-233-11	MYLAR MYLAR ELECT	0.047MF 0.047MF 0.047MF 22MF	5% 5% 5% 20%	50V 50V 50V 25V	
	*A-1640-159-A	D BOARD, COM				C1725	1-102-963-00		33PF	5%	50V	
		CLIP, FUSE SCREW (M3X10 PACITOR >), P, SW (4	.)		C1726 C1727 C1728 C1729 C1730	1-124-122-11 1-102-963-00 1-102-963-00 1-106-377-00 1-102-963-00	CERAMIC CERAMIC MYLAR	100MF 33PF 33PF 0.027MF 33PF	20% 5% 5% 99% 5%	35V 50V 50V 200V 50V	
C901	1-126-320-11		10MF	20%	167							
C902	1-124-477-11		47MF	20%	16V 16V	C1731 C1732	1-124-122-11 1-106-377-00		100MF 0.027MF	20% 99%	35V 200V	



REF	.NO.	PART NO.	DESCRIPT	TION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REM
C17		1-102-963-00 1-102-963-00		33PF 33PF	5% 5%	50V 50V	D1723	8-719-109-50	DIODE RD2.0ESB	1		
C17		1-124-122-11		100MF	20%	35V		< FUS	E >			
C17 C17		1-106-377-00 1-124-937-11		0.027MF 10MF	99% 20%	200V 16V			FUSE, TIME-LAG FUSE, TIME-LAG			
C17		1-124-122-11		100MF	20%	35V						
C17		1-136-153-00 1-124-1 22-11		0.01MF 100MF	5% 0.00.	50V		< IC	>			
C17	40	1-124-122-11	ELECT	TOOMF	20%	35 V	IC901	8-759-145-58	TC IIPC4558C			
C17	41	1-124-122-11	ELECT	100MF	20%	35V	IC902	8-752-033-68				
· C17	42	1-126-104-11		470MF	20%	35V	IC903	8-759-701-56	IC NJM78M05FA			
C17		1-124-120-11		220MF	20%	25V	IC904		IC NJM79M05FA			
C17 C17		1-126-375-11 1-106-220-00		100MF 0.1MF	20% 10 %	25V 100V	IC905	8-759-701-89	IC NJM7915FA			
017	33	1 100 220 00	211 4M M	V. IM	20.0	1001	IC906	8-759-148-84	IC UPC2415HF			
C17		1-106-220-00		0.1MF	10%	100V	IC907	8-759-140-53	IC uPD4053BC			
C17		1-106-220-00		0.1MF	10%	100V	IC908	8-759-145-58				
C17		1-106-220-00		0.1MF	10%	100V	IC910	8-759-054-40				
C17 C17		1-106-220-00 1-106-220-00		0.1MF 0.1MF	10% 10%	100V 100V	IC1701	8-759-602-19	IC M5220L			
CI	00	1-100-220-00	MILLAN	O. IMP	10-9	1004	IC1702	8-759-602-19	IC M5220L			
C17		1-124-907-11		10MF	20%	50V	IC1703	8-759-602-19				
C17		1-124-477-11		47MF	20%	16V	IC1704		IC STK4278-L			
C17		1-124-477-11		47MF	20%	16V	IC1705		IC STK4278-L			
C17 C17		1-126-101-11 1-124-907-11		100MF 10MF	20% 20%	16V 50V	IC1706	8-759-113-13	IC UPC1498H			
01,	0,5	1 101 707 11	20001	2000	20.0	501	IC1707	8-759-113-13				
C17		1-130-495-00		0.1MF	5%	50V	IC1708	8-759-113-13				
C17		1-124-907-11		10MF	20%	50V	IC1709	8-759-145-58			,	
C17 C18		1-124-907-11 1-102-074-00		10MF 0.001MF	20% 10%	50V 50V	IC1710 IC1714	8-759-145-58 8-759-145-58				
010	701	1 102 074 00	CHIMITO	0.001111	10.0	301	101/14	0 755 145 50	10 01045500			
		< DIC					IC1715 IC1718	8-759-145-58 8-759-145-58				
D1		1-766-280-11							•			
D2 D3		1-766-281-21 *1-564-512-11			KD) 8P		İ	< CO1	ь >			
D4		1-766-278-21			RD) 5P		L901	1-459-313-00	COIL WITH CORE	(HWC)		
D5		1-766-281-21	PIN, CONNE	CTOR (PC BOA	RD) 8P		L902	1-459-313-00	COIL WITH CORE	(HWC)		
		1 604 460 44		gman 100			L903		COIL WITH CORE			
D6 D7		1-691-169-11 *1-564-507-11					L904	1-459-313-00	COIL WITH CORE	(HWC)		
D8		1-766-276-21			RD) 3P			< TRA	ANSISTOR >			
D9		*1-564-507-11	PLUG, CONN	ECTOR 4P	,							
D14	1	*1-564-513-11	PLUG, CONN	ECTOR 10P			Q902		TRANSISTOR DTC			
700	0.1	0 710 011 10	DIODE 1001	10			Q906		TRANSISTOR 2SC			
D90 D90		8-719-911-19 8-719-911-19					Q907 Q908		TRANSISTOR DTC		4.1	
D17		8-719-911-19					Q909		TRANSISTOR 2SC		FE	
D17		8-719-900-95										
D17	705	8-719-900-95	DIODE V09G	}			Q910		TRANSISTOR 2SC			
D17	706	8-719-900-95	חווחש מוומר				Q911 Q912		TRANSISTOR 2SA TRANSISTOR 2SA			
D17		8-719-911-19					Q312	6-729-119-70	TRANSISTOR 25A	111/3-11	LE	
D17		8-719-911-19						< RE	SISTOR >			
D17		8-719-911-19										4 / / ***
D17	710	8-719-911-19	DIODE 1SS1	.19			R901	1-215-463-00 1-215-463-00		56K 56K		1/ 4W 1/4W
D17	711	8-719-911-19	DIODE 1991	19			R902 R903	1-215-449-00			1% 1%	1/4W
D17		8-719-911-19					R904	1-215-455-00			1%	1/4W
D17	713	8-719-911-19					R905	1-215-449-00	METAL	15K	1%	1/4W
D17		8-719-911-19					2000	1 015 460 00	VIII 7	100=	40.	4 / 434
D17	/15	8-719-911-19	DIODE 1881	.19			R906 R907	1-215-469-00 1-215-469-00		100K 100K		1/4W 1/4W
D17	716	8-719-911-19	DIODE 1991	19			R907	1-215-469-00		100K		1/4W 1/4W
D17		8-719-911-19					R909	1-215-473-00		150K		1/4W
D17	718	8-719-911-19	DIODE 1SS1	.19			R910	1-215-437-00		4.7K		1/4W
D1'		8-719-109-50						4 44= 1=4			40	4 / / / -
D1'	721	8-719-109-50	DIODE RD2.	UESB1			R911 R912	1-215-453-00 1-215-453-00		22K 22K		1/4W 1/4W
D1'	722	8-719-109-50	DIODE RD2.	OESB1			R912	1-215-437-00		4.7K		1/4W



REF.NO.	PART NO.	DESCRIPTI	ON	REMARK	REF.NO.	PART NO.	DESCRIPTI	ON	REMARK
R914 R915	1-215-453-00 1-215-435-00		22K 1% 3.9K 1%	1/4W 1/4W	R976 R977	1-215-399-00 1-215-399-00	METAL METAL	120 1% 120 1%	1/4W 1/4W
R916 R919 R920 R921 R922	1-215-457-00 1-215-399-00 1-215-399-00 1-215-399-00 1-215-399-00	METAL METAL METAL	33K 1% 120 1% 120 1% 120 1% 120 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R978 R979 R980 R981 R982	1-215-399-00 1-215-399-00 1-215-399-00 1-215-399-00 1-249-431-11	METAL METAL METAL METAL CARBON	120 1% 120 1% 120 1% 120 1% 120 1% 15K 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R923 R924 R925 R926 R927	1-215-441-00 1-215-441-00 1-215-441-00 1-215-463-00 1-215-463-00	METAL METAL METAL	6.8K 1% 6.8K 1% 6.8K 1% 56K 1% 56K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R983 R984 R985 R986 R987	1-249-431-11 1-214-806-21 1-214-806-21 1-214-806-21 1-215-421-00	CARBON METAL METAL METAL METAL	15K 5% 3.9 1% 3.9 1% 3.9 1% 1K 1%	1/4W 1/2W 1/2W 1/2W 1/4W
R928 R929 R930 R931 R932	1-215-461-00 1-215-433-00 1-215-433-00 1-215-433-00 1-215-433-00	METAL METAL	47K 1% 3.3K 1% 3.3K 1% 3.3K 1% 3.3K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R988 R989 R990 R991 R992	1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00	METAL METAL METAL METAL METAL	1K 1% 1K 1% 1K 1% 1K 1% 1K 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R933 R934 R935 R936 R937	1-215-433-00 1-215-433-00 1-215-439-00 1-215-439-00 1-215-439-00	METAL METAL METAL METAL METAL	3.3K 1% 3.3K 1% 5.6K 1% 5.6K 1% 5.6K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R993 R994 R995 R999 R1701	1-249-429-11 1-249-429-11 1-215-457-00 1-215-455-00 1-249-411-11	CARBON CARBON METAL METAL CARBON	10K 5% 10K 5% 33K 1% 27K 1% 330 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R938 R939 R940 R941 R942	1-215-417-00 1-215-433-00 1-215-429-00 1-215-441-00 1-215-451-00	METAL METAL METAL METAL METAL	680 1% 3.3K 1% 2.2K 1% 6.8K 1% 18K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1702 R1703 R1704 R1705 R1706	1-249-427-11 1-249-427-11 1-249-411-11 1-249-411-11 1-249-427-11	CARBON CARBON CARBON CARBON CARBON	6.8K 5% 6.8K 5% 330 5% 330 5% 6.8K 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R943 R944 R945 R946 R947	1-215-441-00 1-215-439-00 1-215-445-00 1-215-445-00 1-215-439-00	METAL METAL METAL METAL METAL	6.8K 1% 5.6K 1% 10K 1% 10K 1% 5.6K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1707 R1708 R1709 R1710 R1711	1-249-411-11 1-249-427-11 1-249-427-11 1-249-411-11 1-249-411-11	CARBON CARBON CARBON CARBON CARBON	330 5% 6.8K 5% 6.8K 5% 330 5% 330 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R948 R949 R950 R951 R952	1-215-455-00 1-215-439-00 1-215-429-00 1-215-429-00 1-215-437-00	METAL METAL METAL METAL METAL	27K 1% 5.6K 1% 2.2K 1% 2.2K 1% 4.7K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1712 R1713 R1714 R1715 R1716	1-249-427-11 1-215-886-11 1-249-411-11 1-249-411-11 1-215-886-11	CARBON METAL OXIDE CARBON CARBON METAL OXIDE	6.8K 5% 100 5% 330 5% 330 5% 100 5%	1/4W 2W F 1/4W 1/4W 2W F
R953 R954 R955 R956 R957	1-215-439-00 1-215-439-00 1-215-435-00 1-215-437-00 1-215-441-00	METAL METAL METAL	5.6K 1% 5.6K 1% 3.9K 1% 4.7K 1% 6.8K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1717 R1718 R1719 R1720 R1721	1-214-792-00	CARBON METAL CARBON	330 5% 1K 5% 1 1% 330 5% 1K 5%	1/4W 1/4W 1/2W 1/4W 1/4W
R958 R959 R960 R961 R962	1-215-437-00 1-215-439-00 1-215-439-00 1-215-439-00 1-215-441-00	METAL	4.7K 1% 5.6K 1% 5.6K 1% 5.6K 1% 6.8K 1%	1/4W 1/4W 1/4W 1/4W	R1722 R1723 R1724 R1725 R1726	1-249-411-11 1-249-417-11 1-215-886-11 1-215-886-11	CARBON CARBON METAL OXIDE METAL OXIDE METAL OXIDE	330 5% 1K 5% 100 5% 100 5% 100 5%	1/4W 1/4W 2W F 2W F 2W F
R963 R964 R965 R966 R967	1-215-441-00 1-215-441-00 1-215-909-11 1-215-469-00 1-215-421-00	METAL	6.8K 1% 6.8K 1% 47 5% 100K 1% 1K 1%	1/4W 1/4W 3W F 1/4W 1/4W	R1727 R1728 R1729 R1730 R1731	1-214-792-00	METAL METAL CARBON	1 1% 1 1% 1 1% 1 1% 100 5% 1K 5%	1/2W 1/2W 1/2W 1/4W 1/4W
R968 R969 R970 R971 R972	1-215-437-00 1-249-421-11 1-215-909-11 1-249-421-11 1-249-431-11	METAL CARBON METAL OXIDE CARBON CARBON	4.7K 1% 2.2K 5% 47 5% 2.2K 5% 15K 5%	1/4W 1/4W 3W F 1/4W 1/4W	R1732 R1733 R1734 R1735 R1736	1-247-807-31 1-247-807-31 1-247-807-31 1-247-807-31 1-249-423-11	CARBON CARBON CARBON	100 5% 100 5% 100 5% 100 5% 3.3K 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R973 R974 R975	1-249-431-11 1-215-399-00 1-215-399-00	CARBON METAL METAL	15K 5% 120 1% 120 1%	1/4W 1/4W 1/4W	R1737 R1738 R1739	1-249-423-11 1-249-423-11 1-249-423-11	CARBON CARBON	3.3K 5% 3.3K 5% 3.3K 5%	1/4W 1/4W 1/4W



REF.NO.	PART NO.	DESCRIPTIO	N			REMARK	REF.NO.	PART NO.	DESCRIPT	ION		REMA
R1740 R1741	1-249-417-11 1-249-423-11	CARBON CARBON	1K 3.3K	5% 5%	1/4W 1/4W		R1801 R1802	1-215-439-00 1-215-439-00	METAL METAL	5.6K 5.6K		1/4W 1/4W
R1742 R1743 R1744 R1745 R1746	1-249-423-11 1-249-417-11 1-249-411-11 1-247-807-31 1-214-792-00	CARBON CARBON CARBON CARBON METAL	3.3K 1K 330 100	5% 5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/2W		R1803 R1805 R1806 R1807 R1808	1-215-439-00 1-215-439-00 1-247-807-31 1-247-807-31 1-214-792-00	METAL METAL CARBON CARBON METAL	5.6K 5.6K 100 100	1% 1% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/2W
R1747 R1748 R1749 R1750 R1751	1-215-886-11 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00	METAL OXIDE METAL METAL METAL METAL	100 1K 1K 1K 1K	5% 1% 1% 1% 1%	2W 1/4W 1/4W 1/4W 1/4W	P	R1809 R1810 R1811 R1812 R1813	1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00	METAL METAL METAL METAL METAL	1 1 1 1	1% 1% 1% 1% 1%	1/2W 1/2W 1/2W 1/2W 1/2W
R1752 R1753 R1754 R1755 R1756	1-215-421-00 1-215-421-00 1-214-792-00 1-215-469-00 1-215-443-00	METAL METAL METAL METAL METAL	1K 1K 1 100K 8.2K	1% 1% 1% 1%	1/4W 1/4W 1/2W 1/4W 1/4W		R1814 R1815 R1816 R1817 R1818	1-249-431-11 1-247-885-00 1-249-431-11 1-247-885-00 1-247-807-31	CARBON CARBON CARBON CARBON CARBON	15K 180K 15K 180K 100	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R1757 R1758 R1759 R1760 R1761	1-215-437-00 1-215-437-00 1-247-807-31 1-249-427-11 1-249-419-11	METAL METAL CARBON CARBON CARBON	4.7K 4.7K 100 6.8K 1.5K	1% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1819 R1820 R1821 R1822 R1823	1-215-437-00 1-215-437-00 1-215-437-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	4.7K 4.7K 4.7K 10K 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1762 R1763 R1764 R1765 R1766	1-215-445-00 1-249-427-11 1-249-419-11 1-249-419-11 1-249-427-11	METAL CARBON CARBON CARBON CARBON	10K 6.8K 1.5K 1.5K 6.8K	1% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1824 R1825 R1826 R1827 R1828	1-215-433-00 1-215-433-00 1-215-433-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	3.3K 3.3K 3.3K 10K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1767 R1768 R1769 R1770 R1771	1-249-427-11 1-249-439-11 1-215-445-00 1-247-807-31 1-247-807-31	CARBON CARBON METAL CARBON CARBON	6.8K 68K 10K 100 100	5% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1829 R1830 R1831 R1832 R1833	1-249-434-11 1-249-434-11 1-247-807-31 1-215-471-00 1-215-471-00	CARBON CARBON CARBON METAL METAL	27K 27K 100 120K 120K	5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1772 R1773 R1774 R1775 R1776	1-215-429-00 1-215-429-00 1-215-421-00 1-249-429-11 1-215-421-00	METAL METAL METAL CARBON METAL	2.2K 2.2K 1K 10K 1K	1% 1% 1% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1834 R1835 R1836 R1837 R1838	1-215-471-00 1-215-437-00 1-215-437-00 1-215-421-00 1-249-431-11	METAL METAL METAL METAL CARBON	120K 4.7K 4.7K 1K 15K	1% 1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R1777 R1778 R1779 R1780 R1781	1-249-423-11 1-215-421-00 1-215-898-11 1-214-806-21 1-214-806-21	METAL METAL OXIDE METAL	3.3K 1K 10K 3.9 3.9	5% 1% 5% 1% 1%	1/4W 1/4W 2W 1/2W 1/2W	F	R1839 R1858 R1859 R1860 R1861	1-249-431-11 1-215-445-00 1-215-445-00 1-215-397-00 1-215-453-00	METAL METAL METAL	15K 10K 10K 100 22K	5% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1782 R1783 R1784 R1785 R1786	1-214-806-21 1-214-806-21	METAL OXIDE	10K 3.9 3.9 10K 3.9	5% 1% 1% 5% 1%	2W 1/2W 1/2W 2W 1/2W	F	R1862 R1863 R1864 R1865 R1866	1-215-453-00 1-215-397-00 1-215-437-00 1-215-453-00 1-215-453-00	METAL METAL METAL	22K 100 4.7K 22K 22K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1787 R1788 R1789 R1790 R1791	1-214-806-21 1-249-433-11 1-249-441-11 1-249-433-11 1-249-429-11	CARBON CARBON CARBON	3.9 22K 100K 22K 10K	1% 5% 5% 5% 5%	1/2W 1/4W 1/4W 1/4W 1/4W		R1867 R1868 R1869 R1870 R1871	1-215-437-00 1-215-469-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL METAL	4.7K 100K 10K 10K 10K		1/4W 1/4W 1/4W 1/4W 1/4W
R1792 R1793 R1794 R1795 R1796	1-215-445-00 1-247-807-31 1-215-429-00 1-249-433-11 1-247-807-31	CARBON METAL CARBON	10K 100 2.2K 22K 100	1% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1872 R1873 R1874 R1875 R1876	1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00	METAL METAL METAL	4.7K 4.7K 4.7K 4.7K 4.7K	1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1797 R1798 R1800	1-249-429-11 1-249-423-11 1-247-807-31	CARBON	10K 3.3K 100	5% 5% 5%	1/4W 1/4W 1/4W		R1877 R1878 R1879	1-215-437-00 1-215-475-00 1-215-475-00	METAL	4.7K 180K 180K	1%	1/4W 1/4W 1/4W



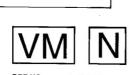
REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1880 R1882	1-215-475-00 1-215-445-00		180K 1% 10K 1%	1/4W 1/4W	RV914 RV915	1-241-630-11 1-241-630-11	RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K	
R1883 R1884 R1885 R1886 R1887	1-215-453-00 1-215-397-00 1-215-445-00 1-215-455-00 1-215-397-00	METAL 1 METAL 2	22K 1% 100 1% 10K 1% 27K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV916 RV917 RV918 RV919 RV920	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1889 R1890 R1892 R1894 R1895	1-215-457-00 1-215-449-00 1-215-445-00 1-215-429-00 1-215-445-00	METAL 3 METAL 1 METAL 1 METAL 2	33K 1% 15K 1% 10K 1% 1.2K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV921 RV922 RV923 RV924 RV925	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K	
R1896 R1897 R1898 R1899 R1900	1-215-445-00 1-215-445-00 1-215-445-00 1-215-421-00 1-215-429-00	METAL 1 METAL 1 METAL 1 METAL 1	0R 1% 0R 1% 0K 1% R 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV926 RV927 RV928 RV929 RV930	1-241-765-11 1-241-765-11 1-241-630-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K	
R1901 R1902 R1903 R1904 R1905	1-215-449-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL 1 METAL 1 METAL 1	.5K 1% .0K 1% .0K 1% .0K 1% .0K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV931 RV932 RV933 RV934 RV935	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1906 R1907 R1908 R1909 R1910	1-215-429-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL 1 METAL 1 METAL 1	0K 1% 0K 1% 0K 1% 0K 1% 0K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV936 RV937 RV938 RV939 RV940	1-241-630-11 1-241-630-11 1-241-630-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K RES, ADJ, CARBON 22K	
R1911 R1916 R1920 R1921 R1922	1-215-453-00 1-215-423-00 1-215-453-00 1-215-445-00 1-215-445-00	METAL 1 METAL 2 METAL 1	2K 1% .2K 1% 2K 1% 0K 1% 0K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV941 RV942 RV943 RV944 RV945	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1924 R1925 R1926 R1927 R1928	1-215-429-00 1-215-429-00 1-215-429-00 1-215-445-00 1-215-421-00	METAL 2 METAL 2 METAL 1	.2K 1% .2K 1% .2K 1% 0K 1% K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV946 RV947 RV948 RV949 RV950	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1929 R1930 R1931 R1932 R1933	1-215-445-00 1-215-397-00 1-215-397-00 1-215-453-00 1-215-453-00	METAL 1 METAL 1 METAL 2	0K 1% 00 1% 00 1% 2K 1% 2K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV951 RV952 RV953 RV954 RV956	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K	
R1934 R1935 R1937	1-215-429-00 1-247-881-00 1-215-445-00	CARBON 1: METAL 1:	.2K 1% 20K 5% 0K 1%	1/4W 1/4W 1/4W	RV957 RV958 RV959 RV961	1-249-417-11 1-241-765-11 1-241-765-11 1-241-765-11	CARBON 1K 5% RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	1/4W
RV901 RV902 RV903 RV904 RV905	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBOI RES, ADJ, CARBOI RES, ADJ, CARBOI RES, ADJ, CARBOI RES, ADJ, CARBOI RES, ADJ, CARBOI	N 22K N 22K N 22K N 22K		RV962 RV963 RV964 RV965 RV966 RV967	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K	
RV906 RV907 RV908 RV909 RV910	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	N 22K N 22K N 22K		RV968 RV969 RV970 RV971 RV972	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV911 RV912 RV913	1-241-765-11	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	N 22K		RV973 RV974 RV975	1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	

D	E2	



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
RV976	1-241-765-11	RES, ADJ, CARBON 22K			R2	1-216-041-00	METAL GLAZE	470 5%	1/10W	l
RV977	1-241-765-11	RES, ADJ, CARBON 22K			R3	1-216-041-00	METAL GLAZE	470 5%	1/10W	1
					R4	1-216-001-00		10 5%	1/10W	1
RV978		RES, ADJ, CARBON 22K			R5	1-216-033-00		220 5%	1/10W	
RV979		RES, ADJ, CARBON 22K			R6	1-216-073-00	METAL GLAZE	10K 5%	1/10W	l
RV980		RES, ADJ, CARBON 47K				4 046 054 00		4 000 00	4 /4 00	
RV981		RES, ADJ, CARBON 22K			R7	1-216-051-00		1.2K 5% 3.9K 5%	1/10W	
RV982	1-241-765-11	RES, ADJ, CARBON 22K			R8	1-216-063-00			1/10W	
******		*********			R9 R10	1-216-045-00 1-216-049-00		680 5% 1K 5%	1/10W 1/10W	
					R11	1-216-049-00		1K 5%	1/10W	
	*3-1642-141-3	E2 BOARD, COMPLETE			KII	1-210-049-00	METAL GLADS	IK Je	1/10	,
	A 1012 111 A	********			R12	1-216-049-00	METAL GLAZE	1K 5%	1/10W	1
					R13	1-216-095-00		82K 5%	1/10W	
•	< CAF	PACITOR >			R14	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	ī
					R16	1-216-037-00	METAL GLAZE	330 5%	1/10W	
C1	1-126-103-11		20%	16V	R17	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W	1 .
C2		CERAMIC CHIP 0.01MF		50V						
C3		CERAMIC CHIP 0.01MF	4.00	50V	R18	1-216-037-00		330 5%	1/100	
C4		CERAMIC CHIP 0.022MF	10%	25V	R19	1-216-049-00		1K 5%	1/109	
C5	1-103-237-11	CERAMIC CHIP 27PF	5%	50 V	R20	1-216-065-00		4.7K 5% 22K 5%	1/100	
C6	1 162 227 11	CERAMIC CHIP 27PF	5%	50V	R21 R22	1-216-081-00 1-216-073-00		10K 5%	1/10V 1/10V	
C7		CERAMIC CHIP 2/PF	10%	25V	R22	1-210-073-00	METAL GLAZE	101 3%	1/10	•
C8		CERAMIC CHIP 0.1MF	10%	25V	******	**********	*********	********	*****	******
C9		CERAMIC CHIP 220PF	5%	50V				·		
C10		CERAMIC CHIP 180PF	5%	50V		*A-1644-054-A	VM BOARD, CO	MPLETE		

C11	1-163-105-00	CERAMIC CHIP 33PF	5%	50V						
C12		CERAMIC CHIP 150PF	5%	50V		4-382-854-11	SCREW (M3X10), P, SW (+)		
C13		CERAMIC CHIP 470PF	5%	50 V				•		
C14	1-124-903-11		20%	50V		< CAI	PACITOR >			
C15	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	-1-01	4 400 400 00		0.011	4.00	F 0**
01.5	1 104 007 11	DI DOM 10VD	0.00.	F 0.**	C1501	1-102-129-00		0.01MF	10%	50V
C16	1-124-907-11	ELECT 10MF CERAMIC CHIP 0.022MF	20%	50V	C1502 C1504	1-126-101-11 1-108-700-11		100MF 0.047MF	20% 10%	16V 200V
C17 C18		CERAMIC CHIP 0.022MF	10% 5%	25V 50V	C1504	1-124-907-11		10MF	20%	50V
C19		CERAMIC CHIP 120PF	10%	50V	C1506	1-108-688-11		0.0047MF	10%	200V
(1)	1-103-001-11	CERMITC CHIP 220FF	100	304	C1300	1-100-000-11	MILMI	0.004/22	10.0	2001
	< CO1	NNECTOR >			C1507	1-106-367-00	MYLAR	0.01MF	10%	100V
					C1508	1-162-318-11	CERAMIC	0.001MF	10%	500V
CN1		CONNECTOR, BOARD TO B	OARD 10P		C1509	1-106-367-00		0.01MF	10%	100V
CN2	*1-568-880-51	PIN, CONNECTOR 5P			C1510	1-126-355-11		33MF	20%	160V
					C1511	1-124 -799-11	ELECT	2.2MF	20%	160V
	< DI6	ODE >		•	91510	4 400 704 44	MIT AD	0.1100	1.00.	20077
D1	0 710 014 42	DIODE DAN202K			C1512	1-108-704-11		0.1MF 0.001MF	10% 10%	200V 500V
D1	0-/13-314-43	DIODE DANZUZK			C1513 C1514	1-162-318-11 1-102-951-00		15PF	5%	50V
	< IC				C1514	1-102-959-00		22PF	5%	50V
	110				C1516	1-102-963-00		33PF	5%	50V
IC1	8-759-521-22	IC TDA4650/V4			01310	1 101 303 00	02102110	5511	••	•••
IC2		IC MC14053BC			C1517	1-124-667-11	ELECT	10MF	20%	50V
	•				C1518	1-102-074-00	CERAMIC	0.001MF	10%	50V
	< CO	IL >			C1519	1-108-688-11		0.0047MF	10%	200V
_ :					C1520	1-126-803-11		47MF	20%	16V
L1	1-4 08-421-00				C1521	1-124-907-11	ELECT	10MF	20%	50 V
L2	1-404-554-11				04554	4 404 400 44		4.000	0.00.	F 011
L3	1-404-554-11	COIL			C1551	1-124-122-11		100MF	20% 20%	50V 50V
	, mn	ANSISTOR >			C1552 C1553	1-124-122-11 1-102-824-00		100MF 470PF	20% 5%	50V 50V
	< TR	UNIDIDION >	•		C1553	1-102-824-00		470PF	5%	50V
Q2	8-729-120-28	TRANSISTOR 2SC1623-L5	L6		C1555	1-130-483-00		0.01MF	5%	50V
Q3	8-729-120-28				02000			man	- •	
Q4	8-729-120-28				C1556	1-130-483-00	MYLAR	0.01MF	5%	50V
Q5		TRANSISTOR 2SC1623-L5			C1557	1-102-824-00	CERAMIC	470PF	5%	50V
-					C1558	1-102-824-00	CERAMIC	470PF	5%	50V
	< RE	SISTOR >			C1559	1-102-824-00		470PF	5%	50V
					C1560	1-102-824-00	CERAMIC	470PF	5%	50 V
JR1			5% 1/8		01574	4 430 403 50	1677.17	0.01103	go.	EAst
JR2			5% 1/8		C1561	1-130-483-00		0.01MF	5%	50V 50V
JR3 JR4	1-216-296-00 1-216-296-00		5% 1/8 5% 1/8		C1562 C1563	1-130-483-00 1-130-483-00		0.01MF 0.01MF	5% 5%	50V
07.4	1-410-490-00	י אמומם מאמט ע	J-0 1/0	'n	C1303	T-T30-403-00	WI DAW	O. OIME	24	30 V



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK
	< COI	NNECTOR >		R1524	1-249-418-11		1.2K	5% 1/-	4w	
V2 V22	*1-564-518-11 1-695-300-11	PLUG, CONNECTOR 3P CONNECTOR, BOARD TO	BOARD 20P		R1525 R1526 R1527	1-249-421-11 1-249-426-11 1-249-414-11	CARBON	2.2K 5.6K 560		1W
	< DI	ODE >	R1528	1-249-429-11	CARBON		5% 1/			
D1502 D1503 D1504 D1505 D1506	8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133			R1529 R1530 R1531 R1533	1-249-414-11 1-216-451-11 1-249-423-11 1-247-903-00	METAL OXIDE CARBON CARBON	120 3.3K 1M	5% 1/-	F IW IW
D1507 D1508 D1509	8-719-982-36 8-719-982-36	DIODE MTZJ-39B DIODE MTZJ-39B DIODE 1SS133			R1534 R1535 R1536 R1551 R1552	1-249-423-11 1-249-392-11 1-249-434-11 1-215-445-00 1-215-423-00	CARBON CARBON METAL	27K	5% 1/4 5% 1/4 1% 1/4	lw f lw lw
	< IC	>			R1553	1-249-417-11	CARBON	1K	5% 1/4	lw
IC1551 IC1552	8-759-145-58 8-759-912-7 7	IC UPC4558C IC LM324N			R1554 R1555 R1556 R1557	1-215-445-00 1-215-375-00 1-215-375-00 1-215-375-00	METAL METAL	12 12	1% 1/4 1% 1/4 1% 1/4 1% 1/4	lw Lw
	< CO	IL >			R1558	1 215 445 00				
L1502	1-408-418-00 < TRA	INDUCTOR 56UH			R1558 R1559 R1560 R1561	1-215-445-00 1-215-445-00 1-215-445-00 1-215-423-00	METAL METAL	10K	1% 1/4 1% 1/4 1% 1/4 1% 1/4	lw lw
Q1501	8-729-017-05	TRANSISTOR 2SA1837			R1562	1-215-423-00		1.2K		
Q1502 Q1503 Q1504 Q1505	8-729-017-06 8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR 2SC4793 TRANSISTOR 2SC2785-H	?B ?B ?B		R1563 R1564 R1565 R1566	1-215-445-00 1-249-417-11 1-215-445-00 1-215-375-00	CARBON METAL METAL	1K 10K 12	1% 1/4 5% 1/4 1% 1/4 1% 1/4	W W W
Q1506 Q1507 Q1508 Q1551	8-729-119-78 8-729-119-78 8-729-142-86 8-729-231-60	TRANSISTOR 2SC2785-HI TRANSISTOR 2SC2785-HI TRANSISTOR 2SC3733 TRANSISTOR 2SD1406-YC	fe fe gr		R1567 R1568 R1569 R1570	1-215-375-00 1-215-375-00 1-215-445-00 1-215-445-00	METAL METAL METAL	12 10K	1% 1/4 1% 1/4 1% 1/4 1% 1/4	W W
Q1552 Q1553 Q1554	8-729-141-83 8-729-231-60 8-729-141-83	TRANSISTOR 2SB1094-LI TRANSISTOR 2SD1406-YC TRANSISTOR 2SB1094-LI	K SR		R1571 R1572	1-249-417-11 1-215-445-00 1-215-375-00	CARBON METAL METAL	10K 1	5% 1/4 l% 1/4	W
Q1555 Q1556	8-729-231-60 8-729-141-83	TRANSISTOR 2SD1406-YO TRANSISTOR 2SB1094-LI	GR K		R1574 R1575 R1576	1-215-375-00 1-215-375-00 1-215-445-00	METAL METAL METAL	12 1 12 1	l% 1/4 l% 1/4 l% 1/4 l% 1/4	M M
	< RES	ISTOR >			R1577	1-215-445-00	METAL	10K 1	l% 1/4	
R1501 R1502 R1503 R1504 R1505	1-249-451-11 1-249-414-11 1-247-734-11 1-249-384-11 1-247-807-31	CARBON 2.2 CARBON 560 CARBON 39 CARBON 1.8 CARBON 100	5% 1/4W 5% 1/4W 5% 1/2W 5% 1/4W 5% 1/4W	F F F	R1578 R1579 R1580 R1581 R1582	1-249-417-11 1-249-417-11 1-249-432-11 1-249-432-11 1-249-432-11	CARBON CARBON CARBON	1K 5	5% 1/4 5% 1/4 5% 1/4 5% 1/4 5% 1/4	M M
R1506 R1507 R1508 R1509 R1510	1-249-419-11 1-249-412-11 1-249-436-11 1-249-421-11 1-249-436-11	CARBON 390 CARBON 39K CARBON 2.2K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W		*****	************** *A-1678-079-A		LETE	**** ***	*****
R1511 R1512	1-249-418-11 1-249-441-11	CARBON 1.2K	5% 1/4W			4-030-359-11 *4-363-146-00	HEAT SINK, H. HEAT SINK, V.	PIN OUT		
R1513 R1514	1-249-432-11 1-247-807-31	CARBON 18K 5	5% 1/4W 5% 1/4W			< CAP	ACITOR >			
R1515 R1517	1-249-435-11 1-249-417-11	CARBON 33K 5	3% 1/4W 3% 1/4W	F	C801 C803 C804	1-123-024-21 1-136-541-11 1-108-700-11	FILM	33MF 1.5MF 0.047MF	5% 10%	160V 200V 200V
R1519 R1520	1-215-916-00 1-249-432-11	METAL OXIDE 680 5	% 3W % 1/4W	F	C805 C806	1-102-030-00 1-136-165-00	CERAMIC	330PF 0.1MF	10% 5%	500V 50V
R1521 R1522	1-249-414-11 1-249-384-11	CARBON 560 5 CARBON 1.8 5	3% 1/4W 3% 1/4W		C808 C809	1-126-541-11 1-124-903-11	ELECT	330MF 1MF	20% 20%	25V 50V
R1523	1-249-400-11	CARBON 39 5	% 1/4W	F	C811	1-124-902-00		0.47MF	20%	50V

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REF.NO.	PART NO.	DESCRIPTION	ON		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
C812 C813	1-102-973-00 1-102-244-00		100PF 220PF	5% 10%	50V 500V		< CON	NECTOR >				
C814 C817 C818 C819 C820	1-110-364-11 1-126-541-11 1-102-824-00 1-124-907-11 1-124-907-11	MYLAR ELECT CERAMIC ELECT	0.1MF 330MF 470PF 10MF	10% 20% 5% 20% 20%	200V 25V 50V 50V 50V	N2 N4 N5 N6 N7		PIN, CONNECTO	OR 4P OR 5P OR (5MM			
C821 C822 C823 C831 C832	1-124-907-11 1-104-792-51 1-124-907-11 1-106-220-00 1-124-907-11	ELECT ELECT ELECT MYLAR	10MF 33MF 10MF 0.1MF	20% 20% 20% 10% 20%	50V 16V 50V 100V 50V	N10 N30 N851 N853	*1-506-371-00 *1-506-371-00	PIN, CONNECTO)R (5MM)R 2P	PITCH) 1P	
C833 C834	1-124-916-11 1-102-121-00	ELECT CERAMIC	22MF 0.0022MF	20% 10%	50V 50V	NL801	1-519-237-14	LAMP, NEON				
C835 C836	1-124-927-11 1-164-091-11		4.7MF 0.0022MF	20% 10%	50V 50V		< TRA	NSISTOR >				
C837 C838 C839	1-136-169-00 1-164-091-11 1-102-106-00	FILM CERAMIC	0.0022MF 0.0022MF 100PF	10% 5% 10% 10%	50V 50V 50V	Q801	4-382-854-11	TRANSISTOR 28 SCREW (M3X10) SPACER, MICA	, P, S	W (+)	; Q801	
C840 C842 C843	1-136-807-11 1-130-471-00 1-136-173-00	FILM MYLAR	0.018MF 0.001MF 0.47MF	10% 3% 5% 5%	1.6KV 50V 50V	Q802	4-373-933-01 4-382-854-11	TRANSISTOR 25 SHEET (TRANSI SCREW (M3X10)	STOR),	BN ; W (+)	Q802 ; Q802	
C844	1-110-364-11		0.1MF	10%	200V	Q803 Q804	8-729-119-76	TRANSISTOR 25				
C850 C851	1-136-169-00 1-124-907-11		0.22MF 10MF	5% 20%	50V 50V	Q806	8-729-119-80	TRANSISTOR 25	C2688-	T.K		
C852	1-124-907-11	ELECT	10MF	20%	50V	Q811	8-729-805-07	TRANSISTOR 29	D1887-	CA		
C853	1-106-220-00	MYLAR	0.1MF	10%	100V	0812	4-382-854-11 8-729-804-48		, P, S	W (+)	; Q811	
C854	1-126-329-11		470MF	20%	50V	Q851	8-729-119-78	TRANSISTOR 25		HFE		
C855 C856 C888	1-126-804-11 1-162-114-00 1-124-903-11	CERAMIC	100MF 0.0047MF 1MF	20% 20%	50V 2KV 50V	Q852 Q853		TRANSISTOR 25				
	< DIO	DE >					< RES	SISTOR >				
D801 D802 D805 D806 D807	8-719-928-08 8-719-302-43 8-719-901-33 8-719-109-85 8-719-109-85	DIODE EL1Z DIODE 1SS133 DIODE RD5.1E	SB2			R800 R801 R803 R804 R805	1-249-401-11 1-216-378-11 1-215-869-11 1-249-429-11 1-249-423-11	METAL OXIDE METAL OXIDE CARBON	47 5.6 1K 10K 3.3K	5% 5% 5% 5% 5%	1/4W 2W 1W 1/4W 1/4W	F F
D808 D810 D814 D815 D817	8-719-901-33 8-719-901-33 8-719-901-33 8-719-921-88 8-719-945-80	DIODE 1SS133	i i .3B			R806 R807 R808 R809 R811	1-249-425-11 1-249-441-11 1-249-419-11 1-249-417-11 1-249-421-11	CARBON CARBON CARBON	4.7K 100K 1.5K 1K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	,
D818 D850 D851 D852 D853		DIODE 1SS133	3.9A			R812 R813 R814 R815 R824	1-249-420-11 1-215-921-11 1-249-409-11 1-249-416-11 1-215-469-00	METAL OXIDE CARBON CARBON	1.8K 4.7K 220 820 100K	5% 5% 5%	1/4W 3W 1/4W 1/4W 1/4W	F
	< IC	>				R825	1-215-453-00		22K	1%	1/4W	
IC803 IC804 IC805	8-759-503-91 8-759-103-93 8-759-100-75	IC UPC393C				R826 R827 R828 R829	1-214-962-00 1-214-764-00 1-215-455-00 1-215-455-00	METAL METAL	820K 30K 27K 27K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W	
	< COI	IL >				R830	1-215-928-11		68K	5%	3W	F
L802 L803 L804 L805	1-409-570-11 1-459-313-00 1-408-421-00 1-424-603-11	COIL WITH CO	ORE (HWC) 100UH			R831 R832 R833 R834	1-215-928-11 1-249-417-11 1-249-419-11 1-249-419-11	CARBON CARBON	68K 1K 1.5K 1.5K		3W 1/4W 1/4W 1/4W	F
		, , , , , , , , , , , , , , , , , , , ,				R835 R836	1-215-429-00 1-215-435-00		2.2K 3.9K		1/4W 1/4W	

NI	70	70	70
IN	LZH		

shading and marked i are critical for safety.

Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTIO	N		_	REMARK	REF.NO.	PART NO.	DESCRIPTION	N			REMARK
R837	1-247-863-91		22K	5%	1/4W			< TRA	INSFORMER >				
R838 R839	1-249-435-11 1-249-438-11		33K	5%	1/4W		m0.01	1 125 252 22					
			56K	5%	1/4W		T801 T802	1-437-078-00 1-437-090-00	TRANSFORMER, HDT	HORIZO	ONTAL	DRIVE	
R840 R841	1-249-434-11 1-249-429-11		27K 10K	5% 5%	1/4W 1/4W		P803	<u>1-453-121-11</u>	TRANSFORMER	ASSY, I	LYBAC	K (NX-2	630B4
R842	1-249-435-11			5%	1/4W		*****	*******	******	*****	****	*****	*****
R847	1-214-761-00			1%	1/4W								
R848	1-215-429-00	METAL	2.2K	1%	1/4W			*1-653-061-11	ZR BOARD				
R849	1-215-421-00			1%	1/4W								
R850 R851	1-215-429-00 1-215-404-00		2.2K 200	1% 1%	1/4W 1/4W			< CAI	PACITOR >				
R858	1-249-417-11	CARBON	1K	5%	1/4W		C1901	1-162-115-00	CERAMIC	330PF		10%	2KV
R859	1-249-435-11	CARBON	33K	5%	1/4W		C1902	1-162-115-00	CERAMIC	330PF		10%	2KV
R860	1-249-441-11		100K		1/4W			< RES	SISTOR >				
R861 R862	1-249-421-11 1-249-434-11		2.2K 27K	5% 5%	1/4W		D1001	1 000 000 00	001 TD	0.00		4 /000	
R863	1-249-431-11		27K 15K	5%	1/4W 1/4W		R1901 R1902	1-202-822-00 1-202-822-00	SOLID SOLID	2.2K 2.2K	20% 20%	1/2W 1/2W	
R864	1-249-428-11	CARBON	8.2K	5%	1/4W		R1903	1-249-414-11	CARBON	560	5%	1/4W	
R865	1-249-440-11	CARBON	82K	5%	1/4W		R1904 R1905	1-249-414-11		560	5%	1/4W	_
R866	1-249-436-11			5%	1/4W		KISOS	1-215-888-00	METAL OXIDE	220	5%	2W	F
R867	1-249-437-11		47K	5%	1/4W			< CON	ECTOR >				
R868 R871	1-249-428-11 1-249-440-11			5% 5%	1/4W 1/4W		ZR1	*1-564-522-11	DI IIO COMPIEC	MOD 70			
	1 215 110 11	CAMBON	UZA	34	1/311		ZR2	*1-564-518-11					
R872	1-249-423-11		3.3K		1/4W		ZR18	*1-691-292-11			BOARD) 3P	
R873 R874	1-249-441-11 1-249-435-11		100K 33K	5% 5%	1/4W 1/4W		******	********	**********	*****			
R875	1-249-421-11			5%	1/4W								
R876	1-215-426-00	METAL	1.6K	1%	1/4W			*1-653-062-11	ZG BOARD				
R877	1-249-434-11	CARBON	27K	5%	1/4W		,	< CAF	ACITOR >				
R878	1-249-441-11		100K	5%	1/4W								
R880 R881	1-249-429-11 1-214-761-00			5% 1%	1/4W 1/4W		C1911 C1912	1-162-115-00 1-162-115-00	CERAMIC	330PF		10%	2KV
R884	1-215-894-11			5%	2W	F	C1912	1-102-115-00	CERAMIC	330PF		10%	2KV
R885	1-249-438-11	CARBON	56K	5%	1 / AM			< RES	SISTOR >				
R886	1-249-417-11			5%	1/4W 1/4W		R1911	1-202-822-00	SOLID	2.2K	20%	1/2W	
R887	1-215-397-00			1%	1/4W		R1912	1-202-822-00	SOLID	2.2K	20%	1/2W	
R888 R889	1-249-410-11 1-249-417-11			5% 5%	1/4W 1/4W		R1913 R1914	1-249-414-11 1-249-414-11	CARBON CARBON	560 560	5% 5%	1/4W 1/4W	
							R1915	1-215-888-00		220	5%	2W	F
R890 R892	1-249-431-11 1-249-417-11			5% 5%	1/4W 1/4W	70			THOMON .				
R893	1-215-453-00			1%	1/4W	r		< COF	NECTOR >				
R894	1-249-401-11			5%	1/4W		ZG2	1-564-523-11					
R895	1-202-731-00	SOLID	10M	20%	1/2W		ZG19	*1-691-292-11	PIN, CONNECT	OR (PC	BOARD) 3P	
R896	1-260-111-11			5%	1/2W		******	*********	******	*****	****	*****	*****
R897 R898	1-247-881-00 1-202-730-00		120K 8.2M		1/4W			*1 (F2 0(2 11					
R899	1-249-429-11			10% 5%	1/2W 1/4W			*1-653-063-11	ZB BOARD ******				
R903	1-247-735-11	SOLID	47	5%	1/2W								
R904	1-215-928-11	METAL OXIDE	68K	5%	3W	F		< CAE	ACITOR >				
R910	1-249-425-11	CARBON	4.7K	5%	1/4W		C1921	1-162-115-00		330PF		10%	2KV
	< VAR	RIABLE RESISTOR	۲ >				C1922	1-162-115-00	CERAMIC	330PF		10%	2KV
< RESISTOR >													
RV901 RV902	1-241-765-11	RES, ADJ, CAR RES, ADJ, CAR	RBON 22K	ζ			R1921	1-202-822-00	מת.דת	ישר כ	200	1 / 214	-
				•			R1921	1-202-822-00		2.2K 2.2K		1/2W 1/2W	
	< SPA	ARK GAP >					R1923	1-249-414-11	CARBON	560	5%	1/4W	
SG801	1-519-422-11	GAP, SPARK					R1924	1-249-414-11	CARBON	560	5%	1/4W	
								< COM	NECTOR >				
							ZB3	1-564-524-11	PLUG, CONNEC	TOR 9P			

shauing and marked ! are critical for safety. Replace only with the part number specified.

REMARK

REF.NO. PART NO. DESCRIPTION REMARK **ZB20** *1-691-292-11 PIN, CONNECTOR (PC BOARD) 3P ************************* MISCELLANEOUS ******** 1-241-744-11 RESISTOR ASSY, HIGH-VOLTAGE
1-452-032-00 MAGNET, DISK; 10MM Ø
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø # 1-453-108-11 DC BLOCK, HIGH-VOLTAGE 1-453-121-11 TRANSFORMER ASSY, FLYBACK (NX-2630B4) 1-504-145-11 SPEAKER (12CM) 1-559-865-41 LEAD ASSY, HIGH-VOLTAGE 1-693-185-11 TUNER (UV916H) ! 1-765-286-11 CORD, POWER . 8-451-441-11 DEFLECTION YOKE (Y829PA (R,G)) A. 8-451-441-21 DEFLECTION YOKE (Y829PAN2 (B)) ### 8-736-074-05 PICTURE TUBE (SD-279) (07MAB2(R))
8-736-072-05 PICTURE TUBE (SD-279) (07MAB2(G))
8-736-073-05 PICTURE TUBE (SD-279) (07MAB2(B)) V902 ACCESSORIES AND PACKING MATERIALS ******************** 4-030-895-01 JOINT 4-037-938-01 INDIVIDUAL CARTON 4-037-939-01 TRAY 4-037-940-01 PLATE, TOP 4-037-941-01 PLATE, BOTTOM 4-037-942-01 CUSHION (UPPER) (ASSY) 4-037-943-01 CUSHION (LOWER) (ASSY) 4-202-762-11 MANUAL, INSTRUCTION

(ENGLISH/SPANISH/PORTUGUESE/SWEDISH)

4-388-954-01 BAG, PROTECTION

REMOTE COMMANDER **********

1-467-264-11 REMOTE COMMANDER (RM-842) 9-903-466-11 POCKET COVER (FOR RM-842)

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REF.NO.

PART NO.

DESCRIPTION